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Carnegie-Mellon University. The Thistle

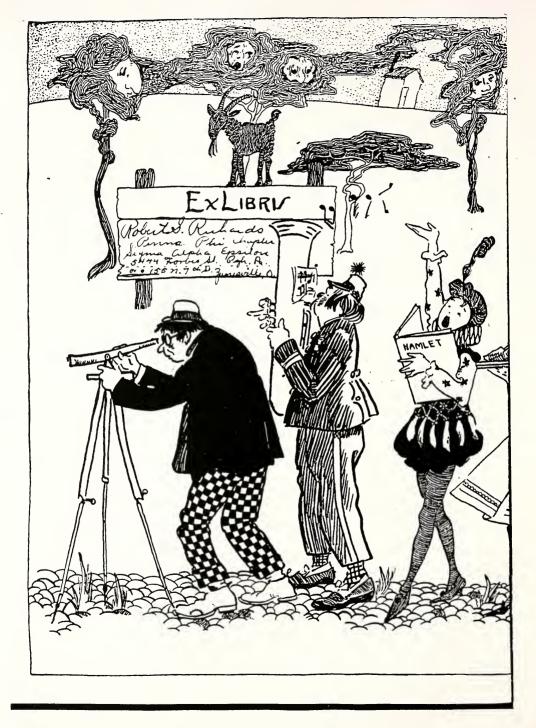




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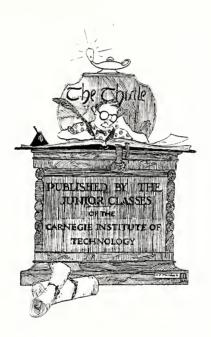
1920

Carnegie Institute of Technology





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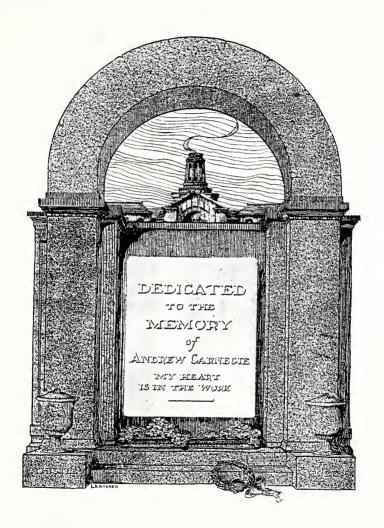


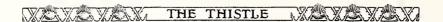
FOREWORD

To recall the life and spirit of Carnegie Tech has been the sincere purpose of the Editors of this book. If we have failed in our object, we have no apologies to make, but assure you that "we have done our best."









Andrew Carnegie

NOVEMBER 25, 1835 — August 11, 1919

"If you were to ask me what was the greatest thing Mr. Carnegie did (and that is pretty hard to tell), I would say that his greatest contribution to our modern day life was to inspire others to do as he did. He set an example and led others to it. He never followed. He was always a pioneer in the enterprise in which he engaged. His work was always creative and constructive. He inaugurated a new era for men having surplus wealth, and in so doing, displayed a vision far in advance of his day and age. He conscientiously, until the very end, practiced that 'gospel of wealth' which he had always preached, and lived exactly up to the maxim, 'He who dies rich, dies disgraced.' Mr. Carnegie will be universally known, appreciated and loved by his fellow-men, in generations to come, for his benevolent acts of today, which are founded and built upon the principle of humanity, 'Love of his fellow-men.'"

Charles L. Taylor,
President of the Edgar Thomson Steel Works.

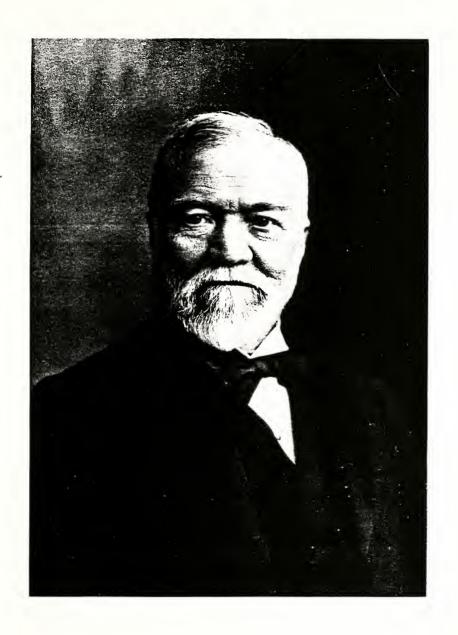
"Andrew Carnegie's greatness will survive his death. His ardent spirit will live in the hearts of those who knew him. He gave to us and to our work a wealth of affection which endeared him to the faculty, students, and alumni of this institution. The world can little know or fully understand how much the life and genius of Andrew Carnegie means to the human race. His contribution cannot be measured. It transcends that of any of his contemporaries. With simplicity, courage, and faith in his fellow-man, he served the cause of enlightenment with an idealism and persistence which will make his stature grow with time."

ARTHUR ARTON HAMERSCHLAG.













"It is nearly forty years since I first met Andrew Carnegie, my greatest friend, indeed my father. As a boy I met him while he was sojourning in the Allegheny Mountains. Even in those early days, such was his personality as to inspire one to better effort in life and to an appreciation of the finer things in the world, not so much by his words, but just by the influence of his strong personality. When I look back at my early life I now feel the influence his personality had upon me continually. Mr. Carnegie is a great example of what a strong personality will do in the world.

"I attribute the steelmaster's success to his faculty of enlisting in his service, men of ability, men who were schooled in the arts and crafts with which Mr. Carnegie himself was not extraordinarily familiar, but which were essential in the expansion of the steel industry.

"It is quite a thing to enlist such aid, but a much different thing to get the best efforts from such men, and that faculty Mr. Carnegie possessed. His great results were always obtained under a spirit of approval and never one of criticism. Mr. Carnegie displayed this philosophy of life early in his career, and he possessed this trait more strongly than any man I ever knew.

"Mr. Carnegie could have nothing better said of him than that he was truly democratic. We are all striving for that. The true aristocrat of today is not the man of birth or wealth, but he is the man who has done something for humanity. He was a true example of democracy, and that which we strive for today Mr. Carnegie practiced all his life. He numbered among his friends not only the rich and powerful, but the workingman."

Charles M. Schwab.









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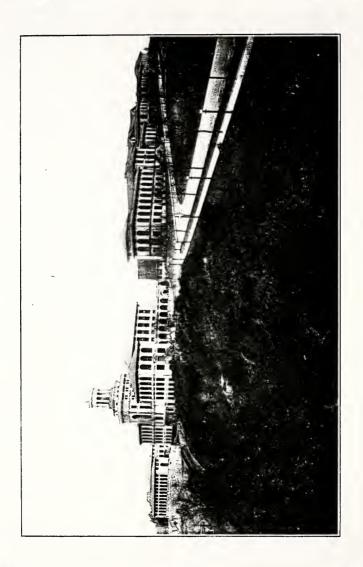
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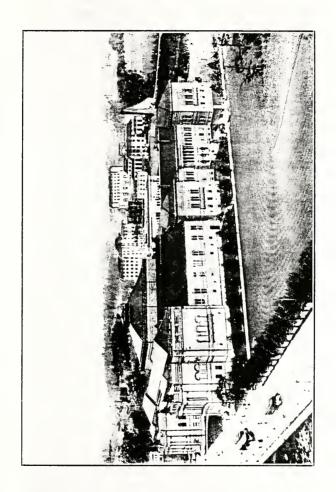


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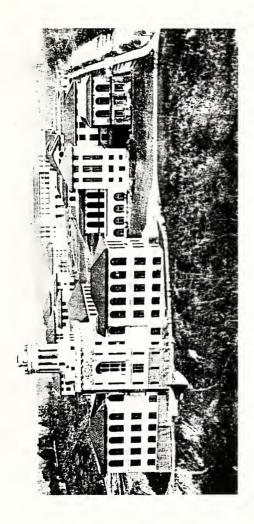


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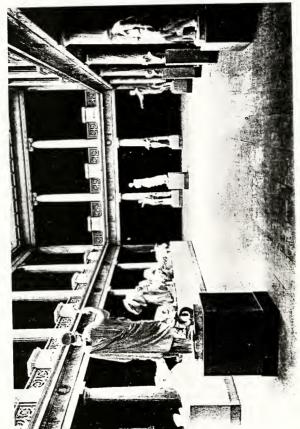








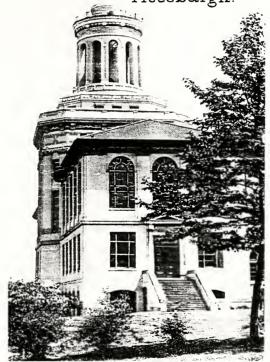




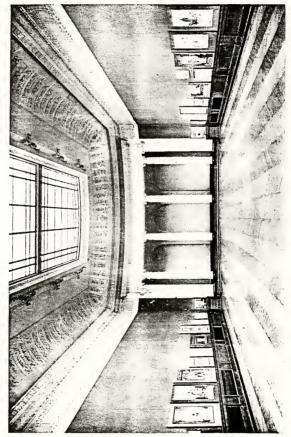
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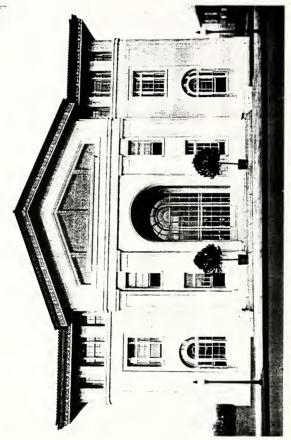


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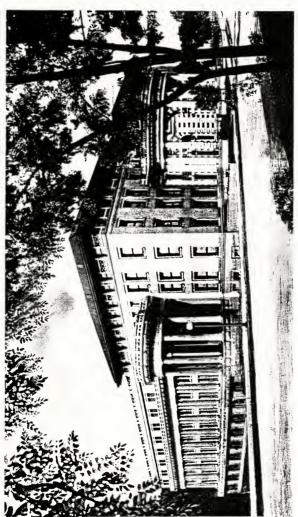




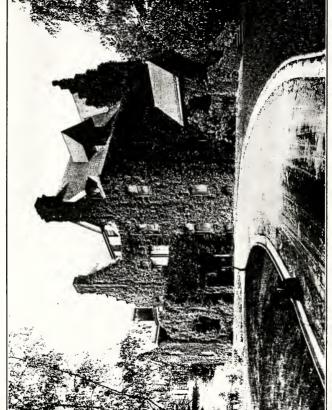


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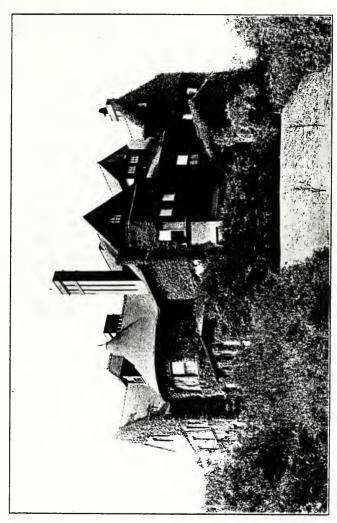


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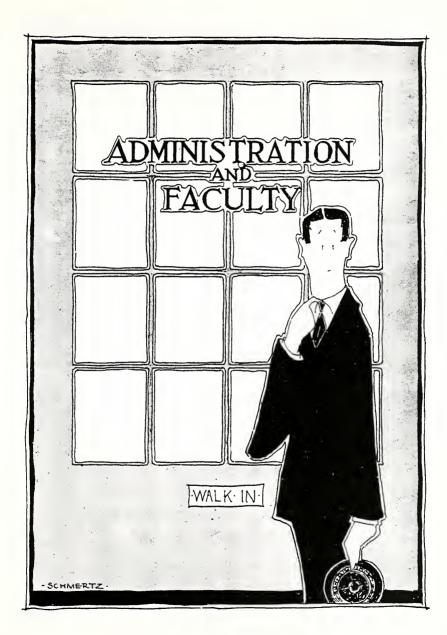


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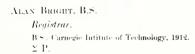


Thomas Stockham Baker, A.B., Ph.D. Secretary of the Carnegie Institute of Technology, A.B., Johns Hopkins University, 1891; Ph.D., 1895. B \oplus H, Φ B K.



ARTHUR WILSON TARBELL, A.A.

Dean of Men.
A.A., Harvard, 1895.









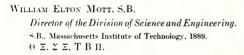




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Director of the Margaret Morrison Division.

A.B., Bryn Mawr College, 1894; A.M., 1895; Ph.D., 1901.







EDWARD RAYMOND BOSSANGE, Ph.B. Director of the Dirision of the Arts. Ph.B., Columbia University, 1893. Ψ Υ, Τ Σ Δ.







JOHN THEODORE MORRIS, A.B., A.M.
Acting Dean of the Division of Industries.
A.B., Washington and Jefferson College, 1900; A.M., 1903.
A.T., Opheleum.

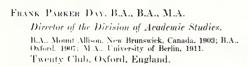


Walter Van Dyke Bingham, A.B., A.M., Ph.D.

Director of the Division of Applied Psychology.

A.B., Beloit College, 1901; A.M., Harvard University, 1907;
Ph.D., University of Chicago, 1908.

Σ Ξ, Φ Β Κ, Φ Δ Κ.

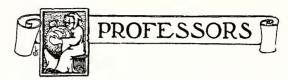




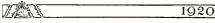








- Thomas Rush Alexander, Jr., A.B., A.M., Ph.D., Assistant Professor of Chemistry A.B., Washington and Jefferson College, 1905; A.M., 1906; Ph.D., University of Pennsylvania, 1915. Σ Ξ .
- HERMAN THEODOR RENDTORFF AUDE, B.S., M.S., Associate Professor of Mathematics B.S., Colgate University, 1905; M.S., 1907. Δ Τ, Φ B K.
- GILBERT HOBBS BARNES, A.B., M.A., Head of Department of History, Economics and Political Science, Professor of Economics A.B., University of Michigan, 1912; M.A., 1913. K Σ P, Φ B K.
- Philip Stephan Barto, A.B., Ph.D., Associate Professor of Modern Languages A.B., University of Illinois, 1906; Ph.D., 1913. A Z.
- Frank Alfred Bicknell. Assistant Professor of Drawing and Painting
 Pupil of Albion H. Bicknell of Boston and Bougereau, Fleury and Brantot at the
 Academie Julien of Paris.
- George Allen Bisbee, B.S., M.S., Assistant Professor of Chemistry B.S., Case School of Applied Science, 1906; M.S., 1914.
- Hugh Alexander Calderwood, Head of Department of Electric Equipment and Construction
- WERRETT WALLACE CHARTERS, A.B., Ph.M., Director of Research Bureau of Retail Training, Professor of Education
 A.B., McMaster University, 1898; Ph.M., Chicago University, 1903. Σ A E. Φ Δ K.
- Mary Channing Coleman, B.S., Assistant Professor of Physical Education Wellesley College, 1910; B.S., Columbia University, 1917.
- Frederic Pierre Colette, B.Lit., Professor of Modern Languages
 Bachelier ès Lettres, University of Paris, 1881.







- IRENE FARNHAM CONRAD, B.S., A.M., Head of Department of Social Work, Associate Professor of Social Work
 - B.S., Northwestern University, 1913; A.M., 1914. KK Γ, Φ B K.
- FRED CRABTREE, S.B., Head of Department of Metallurgy and Mining Engineering, Professor of Metallurgy
 S.B., Massachusetts Institute of Technology, 1889. Σ P, T B Π.
- CLARA G. DAVIDSON, Assistant Professor in Design Pratt Institute, 1910.
- ELIZABETH BALDWIN DEMAREST, A.B., A.M., Ph.D., Associate Professor of History A.B., Mt. Holvoke College, 1907; A.M., Radcliffe College, 1909; Ph.D., 1913.
- BOYD COE DENNISON, M.E., M.M.E., Associate Professor of Electrical Engineering M.E., Cornell, 1904; M.M.E., 1908. Σ Ξ.
- Samuel Edward Dibble, Head of Department of Heating, Ventilating and Sanitation
- Herbert Schumann Dornberger, A.B., S.B., Assistant Professor of Construction A.B., Gettysburg College, 1906; S.B., Massachusetts Institute of Technology, 1910. Φ Δ Θ .
- CLIFFORD GEORGE DUNNELLS, C.E., Head of Department of Building Erection and Estimating
 C.E., Lehigh, 1897; Δ T, A T.
- Douglas Dobell Ellington, B.S., Assistant Professor of Architecture

 Drexel Institute, 1907; B.S., University of Pennsylvania, 1912; Ecole des Beaux Arts,
 1915, K.A.!
- EDMOND ESQUERRE, A.B., Head of Department of Student Health, Professor of Hygiene and Dietetics

 A.B., University of Toulouse, 1888.
- Thomas Gemmill Estep, Jr., B. S., Associate Professor of Mechanical Engineering B.S., Pennsylvania State College, 1905.
- CHARLES REINHARD FETTKE, B.S., M.A., Ph.D., Assistant Professor of Geology and Mineralogy
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 E. E.
- George Herbert Follows, M.E., Head of Department of Commercial Engineering, Professor of Commercial Engineering M.E., Whitworth Scholar, South Kensington, England, 1886.
- LEONARD PETER FOX, B.A., M.A., Ph.D., Assistant Professor of Political Science, B.A., University of Wisconsin, 1911; M.A., 1912; Ph.D., University of Pennsylvania, 1916. Φ H, Φ B K.





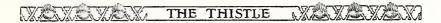


- EDWIN GLENN FRAZER, A.B., B.S., Assistant Professor of Mechanics A.B., Westminster, 1900; B.S., Pennsylvania State College, 1905.
- Otto Theodore Geckler, A.B., Associate Professor of Mathematics A.B., Indiana University, 1894.
- HAROLD GEOGHEGAN, A.B., A.M., Professor of History of Art A.B., Dublin University, 1900; A.M., 1912; Certificat d'Etudes Francaises, University of Paris, 1905.
- Charles Gott, A.B., A.M., Ph.D., Assistant Professor of English A.B., Tufts, 1911; A.M., Harvard, 1914; Ph.D., 1919. \(Delta T. \)
- Howard Cousens Griffin, A.B., Associate Professor of Chemistry A.B., Bowdoin College, 1904. A Δ Φ , Φ B K.
- LARS OLAI GRONDAHL, B.S., M.S., Ph.D., Associate Professor of Physics
 B.S., St. Olaf College, 1904; M.S., 1904; Ph.D., Johns Hopkins University, 1908.

 2 A E, 2 \(\Sigma \).
- RICHARD HAMER, B.A., M.A., Assistant Professor of Physics B.A., University of Saskatchewan, 1913; M.A., 1916.
- JULIA PEACHY HARRISON, B.S., Ph.D., Assistant Professor of Chemistry B.S., Richmond College, 1909; Ph.D., Johns Hopkins University, 1912. Z T A.
- Beulah Clark Hatch, S.B., Assistant Professor of Household Economics S.B., Simmons College, 1908.
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- Marion Holmes, Ph.B., Head of Department of Secretarial Studies. Professor of Secretarial Studies, Employment Secretary and Vocational Adviser for Women Ph.B., Northwestern University, 1902.
- Leonora M. Honecker, B.S., Assistant Professor of Secretarial Studies B.S., Carnegie Institute of Technology, 1914.
- Henry Hornbostel, Ph.B., Patron of the Division of the Arts Ph.B., Columbia University, 1891; Ecole des Beaux Arts, Paris, 1897, T Σ Δ .







- HARRY SLOAN HOWER, B.S., M.S., Head of Department of Physics, Professor of Physics B.S., Case School of Applied Science, 1899; M.S., 1915; University of Berlin, 1905. θ Ξ , Σ Ξ , T B Π .
- JOHN THOMAS HOYLE, Assistant Professor of Printing and Advertising University of Rochester; McMaster University, Toronto. Canada. $\Delta \to \Omega$.
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- JOSEPH HIDY JAMES, B.S., Ph.D., Head of Department of Chemical Engineering, Professor of Chemistry

 B.S., Buchtel College, 1894; Ph.D., University of Pennsylvania, 1899. ТВ П.
- JOHN SIBBIT KEIR, B.A., M.A., Assistant Professor of Industrial Organization B.A., Wesleyan University, 1914; M.A., University of Pennsylvania, 1916. X Ψ, Φ H.
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 A.B., Wittenberg College, 1888; A.M., Yale, 1895. B θ Π.
- Howard C. Kidd, A.B., M.A., Assistant Professor of Commercial Engineering A.B., Columbia University, 1908; M.A., 1911.
- Harold Locke Lang, S.B., Professor of Biology and Public Health S.B., Massachusetts Institute of Technology, 1910. Θ X.
- CHARLES CARLEY LEEDS, B.S., Head of Department of Machinery Production, Professor of Mechanical Drawing B.S., Ohio Mechanics Institute, 1895. A T.
- ROBERT BENJAMIN LEIGHOU, B.S., M.S., Head of Department of Industrial Science, Associate Professor of Chemistry
 B.S., Bucknell University, 1906; M.S., 1919. Φ Γ Δ, A T.
- HARRY SCOTT LIGHTCAP, B.S., Assistant Professor of Mathematics B.S., Pennsylvania State College, 1904. Φ K Φ.
- Griffin M. Lovelace, Professor of Life Insurance Practice Vanderbilt University, 1897; University of Berlin, 1898. Σ X.
- Thomas William Ludlow, B.S., M.A., Assistant Professor of Design B.S., Columbia, 1903; M.A., 1906; Ecole des Beaux Arts, 1908; Sorbonne, 1908. K.A.







- KARL AUGUST MALCHEREK, Associate Professor of Violin Graduate Conservatory of Music, Frankfurt, Germany.
- FRANK MICHAEL McCullough, B.S., Head of Department of Civil Engineering, Professor of Civil Engineering B.S., University of Wisconsin, 1903. Σ A E, T B Π.
- MALCOLM MCLEOD, A.B., A.M., Ph.D., Assistant Professor of English A.B., Harvard, 1904; A.M., 1906; Ph.D., 1914.
- Frederick Fleming McIntosh, B.S., M.E., Associate Professor of Metallurgy and Mining B.S., Harvard, 1903; M.E., 1905.
- HARRY LOVE McKee, B.S., Assistant Professor of Mechanical Drawing B.S., Carnegie Institute of Technology, 1908.
- THOMAS CALVIN MACKAY, A.B., Ph.D., Assistant Professor of Physics A.B., Dalhousie, 1893; Ph.D., Harvard, 1903.
- Bessie Evelyn Merrill, A.B., Head of Department of Arts and Crafts, Associate Professor of Arts and Crafts
 A.B., State University of Nebraska, 1893.
- Fred Benjamin Millett, B.A., Assistant Professor of English B.A., Amherst, 1912. K θ, Φ B K.
- JAMES BURT MINER, B.S., LL.B., Ph.D., Associate Professor of Psychology and Education B.S., University of Minnesota, 1897; LL.B., 1899; Ph.D., Columbia University, 1903. Z Ψ, Φ Δ K, Δ Σ P, Φ B K, Σ Ξ.
- JAMES CADDALL MOREHEAD, A.B., A.M., M.S., Ph.D., Assistant Professor of Mathematics A.B., Roanoke College, 1898; A.M., 1899; M.S., Princeton, 1900; Ph.D., Yale, 1905.
 \(\Sigma \).
- JONAS BERNARD NATHANSON, A.B., A.M., Ph.D., Assistant Professor of Physics A.B., Ohio State University, 1912; A.M., University of Illinois, 1913; Ph.D., 1916. Z B T, Φ B K, Σ Ξ, Φ Λ Υ.
- JAMES VICK O'BRIEN. Head of Department of Music, Professor of Musical Composition University of Notre Dame, 1898.
- Hubert Osborne, Assistant Professor of Dramatic Art Royal Military College of Canada, 1901; Queens University, 1904.
- Frances Camp Parry, A.B., Head of Department of English, Professor of English A.B., Smith, 1899.
- Helene Maud Pope, A.B., A.M., Head of Department of Household Economics, Professor of Nutrition
 - A.B., Mt. Holyoke, 1904; A.M., Columbia University, 1914.
- WILLIAM Z. PRICE, E.M., Assistant Professor of Civil Engineering E.M., Lehigh, 1910.









- Walter Kerr Rainsford, A.B., Head of Department of Architecture A.B., Harvard, 1904; Ecole des Beaux Arts, Paris, 1912.
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- JAMES EDWIN RUSH, S.B., C.P.H., Assistant Professor of Sanitary Engineering S.B., Massachusetts Institute of Technology, 1912; C.P.H., New York University, 1915. N 2 N.
- Sylvain Salieres, Head of Department of Sculpture Student, Art School at Toulouse, France, Ecole des Beaux Arts; pupil of Falguieres, Paris.
- EUGENE FRANCIS SAVAGE. Professor of Decoration Corcoran Art Gallery; Fine Arts Academy of Chicago; American Academy in Rome.
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- CLARENCE WILBUR SPROULL, B.S., M.E., Head of Department of Drawing and Machine Design, Professor of Drawing and Machine Design
 B.S., Rose Polytechnic Institute, 1909; M.E., 1919.
- CHARLES BEECHER STANTON, C.E., Associate Professor of Railroad Engineering and Surveying
 C.E., Rensselaer Polytechnic Institute, 1903. \(\Delta \) K E, \(\theta \) N E. \(\B \Delta \) B.
- EDWARD STEIDLE, B.S., E.M., Associate Professor of Mining Engineering B.S., Pennsylvania State College, 1911; E.M., 1914. Φ Δ Θ .

ФΣК.

- Karl Krenkell Stevens, B.S., Assistant Professor of Analytical Chemistry B.S., University of Michigan, 1898.
- Thomas Wood Stevens, Head of Department of Dramatic Arts
 Armour Institute of Technology: Chicago Art Institute, 1903; pupil of Brangwyn and
 Sorolla.
- JOHN ALFORD STEVENSON, A.B., A.M., Ph.D., Head of Department of Life Insurance Salesmanship, Professor of Education A.B., Ewing College, 1908; A.M., University of Wisconsin, 1912; Ph. D., University of Illinois, 1918, Σ.N., Φ.Δ.Κ., Κ.Δ.Π, Φ.Η.
- EDWARD KELLOGG STRONG, JR., B.S., M.S., Ph.D., Head of Department of Vocational Education, Professor of Vocational Education B.S., University of California, 1906; M.S., Columbia University, 1909; Ph.D., 1911.
- HAAKON STYRI, M.E., Ch.E., Assistant Professor of Metallurgy and Mining M.E., Kristiania Technical School, 1907; Ch.E., Carnegie Institute of Technology, 1910.





- CHARLES JAY TAYLOR, LL.B., A.M., Professor of Illustrations LL.B., Columbia University, 1874; A. M., Middlebury College, 1910; pupil of Emanual Lentze and Eastman Johnson.
- HORACE RICHMOND THAYER, S.B., M.S., Associate Professor of Structural Design S.B., Massachusetts Institute of Technology 1898, M.S., Lehigh University, 1906.
- Louis Leon Thurstone, M.E., Ph.D., Head of Department of Psychology M.E., Cornell, 1912: Ph.D., University of Chicago, 1917. Acacia, H K N.
- Charles Leopold Williald Trinks, M.E., Head of Department of Mechanical Engineering, Professor of Mechanical Engineering
 M.E., Charlottenburg, 1897. T B II.
- Francis J. Tschan, B.A., M.A., Ph.D., Assistant Professor of History B.A., Loyola College, 1901; M.A., 1903; Ph.D., University of Chicago, 1916.
- ELIZABETH MOORHEAD VERMORCKEN, Assistant Professor of English Literature
- ROBERT ZERUBBABEL VIRGIN, Assistant Professor of Coal Mining
- Chester Marvin Wallace, A.B., Assistant Professor of Dramatic Art A.B., Western Reserve University, 1905.
- CHARLES WATKINS, B.A., M.S., Ph.D., Professor of Chemistry
 B.A., Washington and Lee University, 1909; M.S., Vanderbilt University, 1911; Ph.D.,
 Johns Hopkins, 1915. B θ Π, Φ B K, Γ A.
- Ethel G. Webe, B.S., Assistant Professor of Costume Design B.S., Columbia University, 1915. ПВФ.
- William Roth Work, A.B., M.E. in E.E., Associate Professor of Electrical Engineering A. B., Wittenberg College, 1902; M.E. in E.E., Ohio State University, 1905. B Θ Π, Σ Ξ.
- Alexander Jay Wurts, Ph.B., M.E., Head of Department of Electrical Engineering, Professor of Electrical Engineering
 Ph.B., Yale, 1883; M.E., Stevens Institute of Technology, 1884. θ Ξ .
- CLARENCE STONE YOAKUM, B.S., A.B., Ph.D., Director of Bureau of Personnel Research B.S., Campbell, 1900; A.B., Ibid, 1901; Ph.D., University of Chicago, 1908. Φ Γ Δ, Γ A, Σ Ξ.









ROY BARTON AMBROSE, B.S., Head Instructor in Power Machinery Operation B.S., Armour Institute of Technology, 1911.

Francis Gilman Ahlers, A.B., Assistant in English A.B., Harvard College, 1919.

MYRON F. BARRETT, B.S., Instructor in Vocational Education B.S., Carnegie Institute of Technology, 1919. A T.

OLIVE BARROWS, B.S., Instructor in Household Economics B.S., Simmons College, 1918.

CLIFFORD ADAMS BAYARD, A.B., Instructor in Drawing, Design and Lettering A.B., Carnegie Institute of Technology, 1917.

CARL W. Betz, B.S., Instructor in Chemistry B.S., University of Missouri, 1917. A X Z.

MARION A. BILLS, B.A., Ph.D., Research Assistant, Bureau of Personnel B.A., University of Michigan, 1908; Ph. D., Bryn Mawr College, 1917.

John Blackhall, Instructor in Forge Practice

Esther Louise Blair, M.D., Lecturer in Hygiene M.D., Women's Medical College, 1890.

ALLEN HOLT BLAISDELL, B.S., Instructor in Mechanical Engineering B.S., University of Maine, 1911. Φ B K, T B II.

RALPH WALDO BOLTON, B.S., Instructor in Mechanical Engineering B.S., University of Illinois, 1918. H K N.

WITT BOWDEN, A.B., Ph.D., Instructor in History AB., University of Colorado, 1914; Ph.D., University of Pennsylvania, 1919.

Vernon Marsh Brown, A.B., Instructor in Mathematics A.B., Colgate University, 1915. Φ Δ Θ.



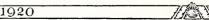


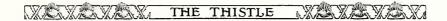




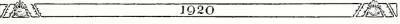
- AGNES MARY HADDEN BYRNES, A.B., A.M., Instructor in Social Work A.B., Northwestern University, 1915; A.M., Columbia University, 1916. Φ B K.
- Edward Byron, M.E., Instructor in Physics M.E., Stevens Institute of Technology, 1912.
- ELLA HAZEL CLARK, A.B., M.A., Instructor in Chemistry A.B., University of Illinois, 1909; M.A., Columbia University, 1911.
- CLIFFORD C. CLARKE, B.S., Instructor in Chemistry B.S., Colgate University, 1919. A T Ω.
- CHARLES ALBERT COLMERY, B.S., Instructor in Mathematics B.S., Carnegie Institute of Technology, 1908. Σ N.
- MARY JANE RUTHERFORD CONDON, A.B., Instructor in Social Work A.B., Beaver College, 1908.
- SHERMAN CONRAD. A.B., Lecturer in Social Work A.B., Colgate University, 1912. A T Ω , Φ B K, Δ Σ P.
- Helen Davis, B.A., Research Assistant in Educational Research B.A., University of Illnois, 1918. Φ B K, K Δ Π.
- JOSEPH CHARLES DERDEYN, Instructor in Violincello Royal Musical Conservatory of Belgium, 1907.
- JAMES STEVENSON DODDS, Instructor in Electric Equipment and Construction Bliss Electrical School, 1902.
- PHILIP STONE DONNELL, A.B., M.E.E., Instructor in Electrical Engineering
 A.B., Clark College, 1910; M.E.E., Harvard Graduate School of Applied Science, 1915.
- WILLIAM HERMAN DOSEY, Head Instructor in Foundry
- LEMUEL HARPER DOUGHERTY, C.E., Instructor in Mathematics C.E., University of Pennsylvania, 1902.
- ELMIRA MAY DUNLEVY, A.B., Reader in English A.B., Mount Holyoke College, 1916.
- ELIZABETH DYER, A.B., M.A., Instructor in Merchandise Salesmanship A.B., Vassar College, 1912; M.A., Simmons College, 1914.
- Paul Burns Eaton, M.E., Instructor in Drawing and Machine Design M.E., Cornell, 1911.
- JEDEDIAH HOWARD EDGERTON, A.B., Instructor in English A.B., Hamilton College, 1906. Θ Δ X.







- Honora English, B.S., Instructor in Household Economics B.S., University of Wisconsin, 1916.
- HAROLD GERSHOM FILES, A.B., A.M., Instructor in English A.B., Harvard, 1915; A.M., 1916. Φ B K.
- Lulu Charlotte Fuller, B.S., Instructor in Household Economics B.S., Carnegie Institute of Technology, 1918.
- HARRY ROBERTS GRAHAM, Instructor in Heating, Ventilating and Sanitation
- D. Walter Griffiths, Ph.B., LL.B., Instructor in Mathematics Ph.B., Lafayette College, 1907; LL.B., New York Law School, 1910.
- GEORGE FREDERICK GUNDELFINGER, Ph.B., Ph.D., Instructor in Mathematics Ph.B., Yale, 1906; Ph.D., 1909. \(\Sigma\) \(\Sigma\).
- John Warren Gustaveson, B.S., Instructor in Physics B.S., Massachusetts Institute of Technology, 1918.
- Samuel G. Haas, B.S., Instructor in Machine Design B.S., Carnegie Institute of Technology, 1917. Τ Γ Φ.
- HERMAN C. HANGEN, A.B., Instructor in Psychology and Assistant to Director of the Division of Applied Psychology
 A.B., University of Kansas, 1919. Acacia, Σ Δ X, Δ Σ P, Φ A T.
- WILLIAM BEELER HARTMAN, Instructor in Machine Work
- RUDOLPH LEONARD HASCHE, B.S., M.S., Instructor in Chemistry B.S., Tarkio College, 1918; M.S., Washington and Jefferson, 1919.
- Beatrice E. Heinrich, B.A., Reader in History B.A., Carnegie Institute of Technology, 1918.
- Peter Wood Herburn, Instructor in Machine Shop Practice
- Erle Gladstone Hill, B.S., Instructor in Metallurgy and Mining B.S., University of California, 1913.
- Myra Elizabeth Hills, A.B., A.M., Ph.D., Instructor in Psychology and Education A.B., Western Reserve University, 1912; A.M., 1915; Ph.D., Columbia University, 1919. Δ Φ Ψ, Φ B K.
- Neuman L. Hoopingarner, A.B., A.M., Field Representative, Bureau of Personnel Research A.B., University of Texas, 1913; A.M., 1915. Φ Δ Κ.

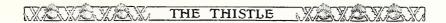




- Callie Hunter, B.S., Assistant Instructor in Biology B.S., Carnegie Institute of Technology, 1918.
- ALICE EMMA Hyde, Instructor in Costume Economics Drexel Institute, 1906.
- WILLIAM HERBERT INGRAM, B.S., M.S., M.D., Lecturer on Anatomy B.S., Geneva College, 1890; M.S., 1893; M.D., University of Pittsburgh, 1894.
- VERN JAMES, A.B., A.M., Instructor in Mathematics A.B., Indiana University, 1912; A.M., Columbia University, 1916.
- Selmar Janson, Instructor in Piano Graduate Berliner Conservatory, Berlin, Germany.
- Francis Oscar Johanson, B.S., Instructor in Mathematics B.S., Columbia University, 1916.
- WILLIAM FREDERIC KAMMAN, A.B., A.M., Ph.D., Instructor in Modern Languages
 A.B., Indiana University, 1913; A.M., 1914; Ph.D., University of Pennsylvania, 1917.
- MARION RUTH KEEFER, B.S., Instructor in Household Economics B.S., Carnegie Institute of Technology, 1919.
- Byron L. Keim, B.S., Instructor in Mechanical Drawing and Descriptive Geometry B.S., Carnegie Institute of Technology, 1918.
- ELIZABETH GAMBLE KELLY, B.S., Instructor in Costume Economics B.S., Carnegie Institute of Technology, 1913.
- THOMAS ERNEST KENNEDY, A.B., Instructor in English A.B., Wheaton College, 1912.
- LOUISA WILSON KNOX, A.B., Instructor in Modern Languages A.B., Goucher College, 1895. Δ Γ.
- Casper Petrus Koch, *Instructor in Organ*Pupil of Reimann and Kullak, Berlin, Germany.
- Charles Wesley Larkin, Instructor in Masonry Williamson Trade School, 1913.
- LEO THOMAS LAWLER, A.B., A.M., LL.B., Instructor in English A.B., Georgetown University, 1914; A. M., 1915; LL.B., 1917. Φ A Δ.
- AMY LEONARD, B.S., Instructor in Secretarial Studies B.S., Simmons College, 1914.
- ANNA CHRISTINE McBride, A.B., B.S., A.M., Instructor in Social Work
 A.B., University of Missouri, 1912; B.S., 1912; A.M., 1913. Φ B K, Σ Ξ .

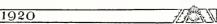


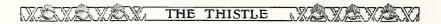




- PAUL McCorkle, B.A., Instructor in Physics B.A., Ohio State University, 1914. II K.A., & B.K.
- JOHN PAUL MANNING, Instructor in Pattern Making Carnegie Institute of Technology, 1909.
- WILLIAM LEROY MARKS, M.D., Lecturer in Hygiene and Resident Physician M.D., University of Pennsylvania, 1911. Φ A Σ, Opheleum.
- JOHN C. MARTIN, Instructor in Machine Composition Northumberland School, 1895.
- Myrtle Elvena Meritt, B.S., Instructor in Ceramics
 B.S., Alfred University, 1913; New York State Ceramic School, 1914.
- ROBERT JOHN MILLAR, Instructor in Architectural Drawing
- LAWRENCE HOWLETT MILLER, B.S., Instructor in Chemistry B.S., Colgate University, 1918. A T Ω.
- CLARA K. Nelson, Instructor in Design Rhode Island School of Design, 1914.
- MARION LELA NORRIS, A.B., A.M., Instructor in Research Bureau for Retail Training A.B., Northwestern University, 1910; A.M., 1915.
- JAY LESLIE O'HARA, A.B., Instructor in Economics A.B., University of Michigan, 1915.
- MARY ISABEL PATTEN, A. B., Instructor in Physical Education A.B., Smith, 1911.
- MILAN PETROVITZ, Instructor in Still Life Painting Carnegie Institute of Technology, 1917.
- WILLIAM Prouts, Head Instructor in Pattern Making
- George McCandless Porter, B.S., Instructor in Electrical Engineering B.S., Carnegie Institute of Technology, 1911.
- Howard Garrett Potter, Head Instructor in Machine Shop Practice
- DAVID B. PUGH., B.S., Instructor in Physics B.S., Lebanon Valley, 1916.
- Clarence Earl Powell, B.S., Instructor in Mechanical Drawing and Machine Design B.S., Carnegie Institute of Technology, 1919. Z A E.
- CHARLES WILSON PRINE, B.S., M.S., Instructor in Physics B.S., Denison University, 1915; M.S., University of Wisconsin, 1917.







- WILFRED ALLEN READIO, A.B., Instructor in Drawing and Composition A.B., Carnegie Institute of Technology, 1918.
- EARL FREDERICK REED, A.B., Instructor in Commercial Law A.B., Washington and Jefferson College, 1915. Δ Θ Φ, Λ X A, Δ Σ P.
- Theodore Rentz. Instructor in Violin
 Graduate Royal Conservatory of Music, Sondershausen, Germany.
- HAROLD ANDREW RICHMOND, A.B., M.A., Research Assistant in Bureau of Personnel Research.
 A.B., Wesleyan, 1915; M.A., 1916. A X P. Φ B K, Δ Σ P.
- ELIZABETH JEANNETTE ROENIGK, A.B., Instructor in English A.B., Vassar, 1914.
- Grace Margaret Rupert, B.S., Instructor in Chemistry B.S., Carnegie Institute of Technology, 1918.
- WILLIAM A. RUSH, B.S., Instructor in Physics B.S., Purdue University, 1906. T B II.
- HENRY KLOMAN SCHMIDT, Instructor in Piano Duquesne University, 1898; Royal Conservatory Leipsic, 1901.
- Franklin Allen Simmons, B.S., Instructor in Civil Engineering B.S., Worcester Polytechnic Institute, 1913. T B II.
- WILLIAM RANDALL SKILLEN, Instructor in Department Store Organization
- EDWIN HORACE SMITH, Head Instructor in Wood Working K 2 P.
- G. CARLTON SMITH, B.S., Instructor in Chemistry B.S., Carnegie Institute of Technology, 1915. Σ A E.
- Craig Reno Spicher, Instructor in Presswork, Acting Head of Dept. of Printing Williamsport Commercial College, 1902; I.P.P., Technical School, 1915.
- IDA HOMER SPURRIER, Instructor in Physical Education Boston School of Physical Education, 1918.
- EDGAR MELVILLE STARR, A.B., Instructor in Mathematics A.B., Indiana University, 1919. Δ Υ.
- Tilly Emily Svenson, B.S., Instructor in Secretarial Studies B.S., Simmons College, 1919.
- John Stanley Taylor, Head Instructor in Forge Practice and Heat Treatment of Steel



1920

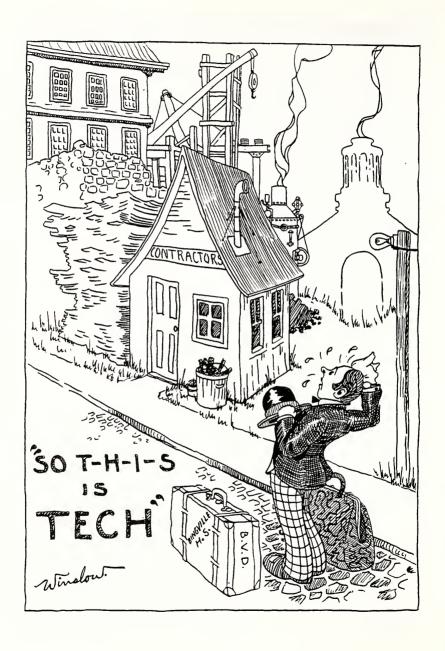


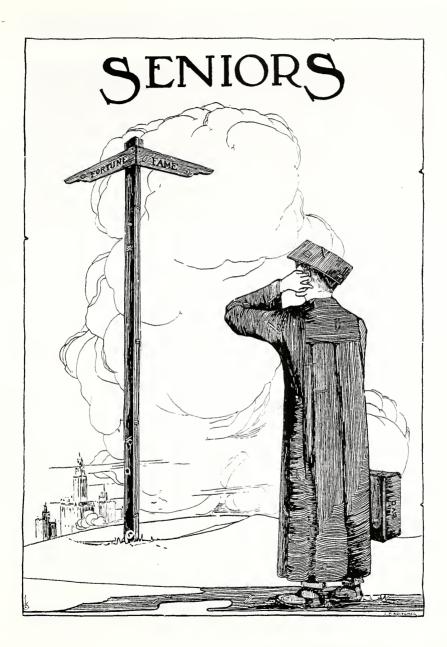


- L. C. TOMLINSON, E.E., M.S., Instructor in Electric Equipment and Construction E.E., University of Minnesota, 1904; M.S., 1909. \(\Sigma\) \(\Sigma\).
- ESTHER TOPP, A.B., Instructor in Drawing and Water Color A.B., Carnegie Institute of Technology, 1916.
- Morris R. Trexler, A.B., A.M., Instructor in Accounting A.B., Lafayette College, 1898; A.M., 1901.
- Walter Hanrichs Renner Trumbauer, B.S., A.M., Ph.D., Instructor in English B.S., University of Pennsylvania, 1912; A.M., 1913; Ph.D., 1917. Φ B K.
- LAWRENCE CHARLES TURNOCK, B.S., Ch.E., Instructor in Physical and Electrochemistry B.S., University of Illinois. 1910; Ch.E., University of Wisconsin, 1911. Z \(\Psi\).
- HELEN GLENN TYSON, A.B., Instructor in Social Work A.B., Vassar College, 1907. Φ B K.
- JACOB DAVID UTECH, Instructor in Foundry
- HOWARD ALBERT VIERHELLER, B.S., Instructor in Machine Design B.S., Carnegie Institute of Technology, 1916. Θ Ξ.
- Sarah Jane Weber, B.Pd., B.S., Instructor in Household Economics B.Pd., Missouri State Normal, 1911; B.S., Columbia University, 1917.
- Augustine Henry Weitz, B.S., Instructor in Chemistry B.S., Carnegie Institute of Technology, 1915.
- JOSEPH YENDES WHEATLEY, B.S., Instructor in Descriptive Geometry B.S., Columbia University, 1886. X Ψ.
- GERTRUDE MAREAN WHITE, B.A., M.A., Ph.D., Instructor in Biology
 B.A., Downer College, 1913; M.A., University of Wisconsin, 1914; Ph.D., 1918. \(\Sigma\) \(\Sigma\).
- EDWIN A. WHITMAN, A.B., M.A., Instructor in Mathematics
 A.B., Yale University, 1910; M.A., University of Pittsburgh, 1915. Φ B K, Σ Ξ, Φ Δ K.
- Edith May Winchester, B.S., Instructor in Secretarial Studies B.S., Simmons College, 1919.
- WILLIAM BURTON YATES, M.E., Instructor in Mechanical Drawing M.E., School of Science and Art, London, England, 1871.











Senior Class Officers—M.M.D.

AGNES PIPER President
MILDRED KRUMMELL Vice-President
NELL BREY Secretary
MARY CUMMINGS Treasurer

AGNES PIPER, "NATALIE", AGE, 23.

Costume Economics
PITTSBURGH, PA. Allegheny High School
Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4);
Y. W. C. A. (3, 4); Y. W. C. A. Cabinet (4); Student
Conneil (4); Class President (4).

Always cheerful and willing to do. She has brown curly hair and true eyes of blue. This versatile maid arose to the height; In choosing our president, we surely chose right.

MILDRED B. KRUMMELL, "KBUM", AGE. 20. Household Economics

Pittsburgh, Pa. Fifth Avenue High School Athletic Association (1.2, 3, 4); Hockey Team (2); Guild (1, 2, 3, 4); Vice-President Class (4).

Cahn, sweet dispositioned, never enraged, Probably that's the secret of being engaged. In all our classes, Mildred's our star, She has ever been away above par, Looking into her future we clearly discern. "Success" is most certain at every turn. NELLE BREY, Age 22. Household Economics
UNIONTOWN, PA. Uniontown High School

Athletic Association (1, 2, 3, 4); Basketball Team (2, 3); Valley Ball (4); Hockey (2); Guild (1, 2, 3, 4); Y. W. C. A. (3); Class Secretary (4).

Motto: "Eat and Grow Thin". But how can she do this when she is Skibo's chief cheese-sandwich patron? She was a man-hater before the days of football, but even so she is a "Pj-Jill".

MARY E. CUMMINGS, "Cummie", Age, 21.
Costume Economies

PITTSBURGH, PA. New Cumberland
High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); House Committee Fifth Avenue Hall (2); Y. W. C. A. (4); Juniar Prom Committee (3); Class Treasurer (4).

"Cummie" is an all-around good sport. For further particulars ask "Joe"—he knows.







Senior Class History—M. M. D.

OLTAIRE says that history is little else than a picture of human crimes and misfortunes. How far this applies to the history of the Senior Class, I will leave it to you to judge. We have had our misfortunes- examinations and barefoot dancing. We have committed our crimes-hazing for one thing. But then we, as Plebes, voluntarily accepted hazing, so we had no regrets or mercy. You can ask the Class of 1921. Against these lurid spots upon the history of 1920, stand out some things that are bright and colorful. It was we who, in our Plebe Year, touched Athletics on the shoulder, saving "You're it"-and set her going. It was we who, in our Sophomore Year, established daffodil day as a regular holiday at Margaret Morrison for remembering the orphans of France. And it was we who, in our Junior Year, had the greatest Prom known to the civilized world. It is plain to see that the history of the Senior Class is above the history of nations!







Senior Class Officers—Science

J. D. Beatty				President
F. J. HEINLE			Vic	e-President
W. K. FAWCETT				Secretary
E G STOY				Treasurer

JOHN DAVID BEATTY, Age, 23.

Ciril Engineering PITTSBURGH, PA. Stetson Academy, Florida

Θ Ξ; Dragon; Delta Skull; Lawtochfrarie; Tennis (1, 2, 3, 4); Captain (3); Seniar Civil Basketball; President Junior Class; Vice-President Student Senate (Science) (3); President Senior Class; President Civil Engineers' Society; Chairman Club Room Committee (4).

"Jack" is rather musically inclined and is invariably singing comic ditties for the benefit of the boys. His favorite is Kipling's "To the Ladies". "Jack" is a real lover of the fair sex. He does not care much for studying, but is quite a shark on the tennis court.

FREDERICK JOHN HEINLE, Age, 22

Chemical Engineering Zanesville High School ZANESVILLE, OHIO

Σ A E; Class Vice-President (4); Musical Club (1, 3, 4); Chemists' Club (2), Secretary (3). President (4); Buckeye State Club (3), Vicc-President (3, 4).

"Fritz", "Our blushing beauty" and "Wiolinist" from Zanesville. He not only carries matches and stays out ill nine o'clock, but also has been seen smoking a "Milo" in his room. The P. C. W. and "Holy City" both have attractions (?) for "Fritz".

WILLIAM KENNETH FAWCETT, Age, 24.

Commercial Engineering ERIE, PA. Erie High School

DA E: Class Secretary (3, 4); Musical Clubs (3, 4); Athletic Editor "Thistle" (3); Fulcrum Club (2); Cammercial Club (3, 4); Quaker (4); Wabblers.

"Fat" was one of the original "woman avoiders" but he grew a mustache, and fell, and oh! how he did hit. His favorite expression is "pipe down", and he tries to convey the impression that he is

EDWARD GUTHRIE STOY, Age. 21. Mechanical Engineering

PITTSBURGH, PA. Fifth Avenue High School

θ Ξ; Lawtochfrarie: Delta Skull; T B II; Dragon; Musical Clubs (1): Plebe Banquet Cammittee; Class Treasurer (4): "Thistle" Board (2); Interfraternity Council; Mystic Seren.

One can always tell when Eddie is around, by looking for the ever-present brief-case. What has us all worried is, how he made Tan Beta Pi after taking three re-exams. One thing is certain, and that is. Eddie made a good dry land sailor.







Senior Class History—Science

THE Class of 1920 came in as a gentle, innocent lamb. This lamb was made the butt of many a harmless joke during the first few days of school. Later in the year, some of its fleecy wool was sheared and dyed by the Sophomores. The biggest event of our Plebe Year was our banquet. It proved a big success in spite of the Sophomores. We finished this strenuous year with just about half of our original numbers.

During our Sophomore Year our ranks were still further reduced by the men going into Service. This year was rather dull and inactive in class affairs, due to the unrest and strain of war conditions. However, we did have a real good Soph Hop. School was closed early in order that special War Courses might be given.

The beginning of our Junior Year was delayed by the war until January 1, 1919, when the remnant of our class again assembled under the old classification, with the old-time pep. Of course, the big event of the year was the Prom. There are proms and proms, but after the war this one seemed different.

Anticipation surely is greater than realization. When Plebes we envied the Seniors, but now as Seniors we find the faculty still have us worried. The feature event of our Senior Year was the Quaker Dance. Now this class that entered as a gentle lamb has gained worldly knowledge and is ready to go out and get the World's goat. Watch Us!





THE THISTLE YEAR



Senior Class Officers—Arts

ARLEIGH WILLIAMSON President
S. P. STEWART Vice-President
JEANNETTE SHIRK Secretary
J. P. DAVIS Treasurer

ARLEIGH B. WILLIAMSON, Age. 30. Dramatic Arts

SACRAMENTO, CAL. Sacramento High School

2 P; President Student Bady, School of Applied
Design. 1916-1917; President Senior Class; Director
"Fall Festival", 1919; Member Students Council, 1916,
1917.

Never failed us yet; always ready for anything—even "Sam McGee". The best ever.

STANLEY POTTER STEWART, Age. 28.

Architecture
Hamilton, Ohio North High School, Columbus, Ohio

S. Dragon; Musical Clubs (1, 4); President of Class (1), Vice-President Class (4); Vice-President Design School Senate (4); Senior Reception Committee (4); Assistant Business Manager "Bohemia Unlimited" (4); Design Ball Cammittee (4).

Way, 'way back in the ages dark, there came to this institution a young man endowed with many talents. Now, after many years of constant application, he's known to us as "Pop", but we will all admit that they don't make them any better. As a true Tech man, and a man among men, "Pop" will be remembered by us all. JEANNETTE CAMPBELL SHIRK, Age, 22.

Illustration
PITTSBURGH, PA. Peabody High School
Art Editor of "Thistle" (3); Secretary Senior Class.

She giggles, giggles; She stipples, stipples. And verses—free and cleverly; And fudges—very creamily, And leads a triple life.

JOHN PHILLIPS DAVIS, AGE, 25. Architecture PITTSBURGH, PA. Central High School

EΣ T; Dragon; Tennis (1, 2, 3), Captain (2, 3); Hockey (2): Student Activities Board (4): Treasurer Senior Class (4); Assistant Editor Tortan (3): Choirman Senior Reception Committee; Design Boll Committee (4).

Another milestone in the History of Carnegie Tech—Selah! Who made the smock for you, Toots? And when a man goes to McCreary's for lunch, we know there are women—whimsical or no—and Toots and his hearty laugh are known by everyone on the campus—both sex. But aside from these activities, he is a star performer on the tennis court, captaining the tennis teams of '16 and '17.





Senior Class History—Arts

ROM that day in 1916, when we stumbled down the circuitous steps of the Administration Building, clutching a small, square card of delicate pink and a little pamphlet of Instructions, we became the Class of 1920—School of Applied Design. Hard-working Plebes we were, too, knocking off only for the Dean's Reception and an occasional dance thereafter.

Our second year was concerned chiefly with the Military; our dances and parties were invaded. War scattered us; war roused us to service; war claimed many of those we loved, without the flash of a last look, the faltering of a hand, the word of parting. The scourge of an epidemic fell upon us sorely.

Back in the halls of our marble workshop, we witnessed new things. A year, two years, had dropped out of our lives. A kaleidoscopic shaking had revealed a new class—a class of many classes, 1918, '19, '20—a new class with a paltry score or more of hard-working creatures. We were almost lost in the maze of under-classmen, and bewildered by our old 1916 friends appearing in the years of '21 and '22. We felt strange and unacquainted. Plebes were no longer Plebes; our building was no longer the School of Applied Design. Old things had passed away and new things came to take their places.

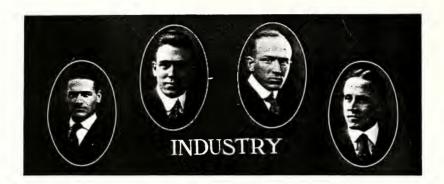
Were we discouraged? We refused to admit it.

By a reception and dance, reminiscent of those "good old days", we made our existence a thing not to be ignored, for although we are serious, as befitting Seniors, we are very much alive to the things of Carnegie Tech.

And so, when we go out into the gloom and the gleam of the world, we will take with us the remembrance of days when we gamboled and danced our way to graduation under the influence of a spirit magic—the personality of this Division of the Arts.







Senior Class Officers—Industries

GILBERT HEDDAEUS			. President	
ROY V. MAST			Vice-President	
F. J. Simons			. Secretary	
J. L. Womack			. Treasurer	

GILBERT T. HADDAEUS, Age, 23.

Electrical Equipment and Canstruction

PITTSBURGH, PA. Allegheny High school

Δ T; A T: Aro Club (2, 3, 4); President (3); Class Secretary (2), President (4); Student Council (4); Executive Committee Student Assembly (4).

A tall, handsome, black-haired man known to us as "Ginkie", or George, is one of Pittsburgh's own; a real Tech man, and popular with all—the girls. Industries is his school by profession, but Design by heart. "Ginkie" will long be remembered by the Cornell trip and Senior Banquet. Yea! Brother.

ROY V. MAST, Age, 22.

Building Erection and Estimating

Zanesville, Ohio Zanesville High School

K D P; A T; Building Construction Club (3), President (4); Vice-President Class (4).

Others than his intimate friends will remember the big Ohioan's smile and his slap on the back, especially the latter. Though he laughs at the name of "woman", we know how the big boys fall. He is going to Strive for \$CCCE88. FRANCIS JOHNSTONE SIMONS, Age, 24.

Building Erection and Estimating
CHARLESTOWN, S. C. The Citadel, Military

Opheleum: Class Secretary (4).

"Nippy" professes to he a woman-hater, but surely there must be some mistake; one in this class does not usually go to New York over Thanksgiving to have a tête-a-tête with a lamp-post. Not only is he famed as a woman-hater, but as a scholar, also. He came to Tech with a B. S. from The Citadel, Military College of South Carolina.

JOHN WOMACK, Age, 24.

Electric Equipment and Installation
HUNTINGTON, W. VA. Hinton High School

'Way back in prehistoric times, long before the Bureau of Mines was huit, and during the era of building. Johnnie Womack, or Womax, girded up his overalls and slipped away from his cliff home in West Virginia, to seek enlightenment at Tech. Result—an expert cut man and all-around Jazz hound.







Senior Class History—Industries

After every war, there is a certain period through which a country must undergo reconstruction. In using the word country, it is used in the general sense to refer to all enterprises of which a government is formed.

We, the Class of 1920, have just begun the reconstruction period in which we have been awarded the degree of Bachelor of Science in Industrial Science. The degree, new in its nature, is the first of its kind to be awarded in the United States. The demand for such trained men was so great during the war, that the necessity for such training has come to the foremost position. Although we are entering upon the world with the new degree, we fully appreciate that the public, in general, will at first refuse to recognize our training, but we do hope as the years go by, that the need for the training will increase as it is doing at the present time.

Now, kind reader, let us turn away from the serious side of life and look into the private college life of a student. We, like all others, have had our frolics, serious moments (such as when exams were on, and the like), but still we will never forget the happy days, and the friendships that have been formed.

In leaving, we part with only memories of P. T., Doctor Esquerre giving out protein, Pop Miller calling his roll for Drawing, the placing of the Plaid flag upon Pitt's flag-pole at Forbes Field, the fight at the welcoming of the 15th Engineers, and Clean-up Day, and last and most important, Recognition Day in June.







MARIAN LUCILE BACH, Age, 23.

Social Work

PHILADELPHIA, PA.

Wilkinsburg High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Dramatic Club (1, 2); Social Work Club (3, 4); Secretory (3); Y. W. C. A. (3).

In every class, Marian's The Shining Light, And everyone knows she is awfully bright. A social worker of fame she will be, Unless she is captured by that New York "he"; The world will lose out if this be the case, But the world and that man are sure running a race,

ELIZABETH KATHRYN BARRETT, "Kelly", Age. 20. Secretarial Carnegie, Pa. Carnegie High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Dramatic Club (1, 2); Class Hockey Team (2); Class Volley Ball Team (4); Stringers (4).

"Kelly" is a lass who loses things faster than Miss Moore can pick them up. Don't think that bothers Elizabeth. She had decided to be a writer and then discovered her talents lay in playing the typewriter as fast as she plays the piano. "Kelly" is firmly determined on only one point—marriage. For it? Never.

MARIAN IRENE BATCHELLOR, "Batch", Age. 22. Secretarial Buffalo, N. Y. Buffalo Seminary

Athletic Association (1, 2, 3, 4); Class Bosketball Team (1, 2, 3, 4); Class Boskey Team (2); Senate Representative (1); Dramatic Club (1); Y. W. C. A. (2, 3); Guild (1, 2, 3, 4).

"Batch" is a devotee of the doctrine of conscientious study, but she forsakes this at times, especially when that imposing figure symbolic of "Dawn" makes itself visible to her presence.

MARY E. BECHTEL, Age, 21.

Secretarial

PITTSBURGH, PA.

Peabody High School

Athletic Association (1, 2, 3, 4); Basketball (1, 2, 3, 4), Captain (1); Student Senate Secretary (3); Senate Vice-President (4); Athletic Association Vice-President (2); Y. W. C. A. (3, 4), Vice-President (3), President (4); Junior Prom Committee.

Mary never misses out when there's work to be done, as can easily be seen by the Activities Notes.





MARY NELLE BIGLEY, Age. 23.

Secretarial

Lima, Ohio Lima High School, Ohio Wesleyan University

Athletic Association (3, 4); Guild (3, 4); Y. W. C. A. (3, 4); Stringers

(3, 4),

At perseverance Neel's a shark, She sees through short hand in the dark: And though she comes from Lima-bean. She's one of the nicest I e'er have seen.

ELIZABETH T. BUCHELE, "Betty", Age, 21. Household Economics (Teachers)

PITTSBURGH, PA.

Allegheny High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Dromatic Club (1, 2); Secretary Class (3); Junior Prom Committee.

Betty Buchele,

Spic and span, A nice young girl

For a nice young man.

A little bit fussy

And very precise, Why who would deny it? She sure can entice.

GRACE A. BUTCHER, "BUTCH", AGE, 22.

Costume Economies (Teachers)

CANTON, OHIO

Canton High School, 1916

Athletic Association (1, 3); Volley Ball (4); Gaild (1, 2).

"Butch", Mellon Hall's clever "Modiste", left her chosen vocation long enough to engage in her favorite sport, fishing, and was fortunate enough to catch a "Pike."

PAULINE MAY CAIN, "Dot". Age, 21.

Household Economies (Teachers)

PITTSBURGH, PA. Westinghouse High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Stringers (4).

Dot's a very little body with lots of "pep". If you don't believe her just watch her step. She's a merry twinkle in her deep blue eye,

And lots of Irish wit—Oh, my!
"When, oh when, will the Engineers come? It's so long since I've seen 'Willyum!







THE THISTLE NEW YEAR



CHARLOTTE F. CRESSMAN, Age, 23. Costume Economics
GREENVILLE, PA. Greenville High School, Thiel College

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Y. W. C. A. (3).

Charlotte looks like a quiet little mouse, but to those of us who know her, Wow! Ask her what she does every Tuesday afternoon. Bet a cooky she won't tell you. Some of our Science Faculty can tell you. But Charlotte doesn't intend to play all her life, she aspires to a little shop of her own. French? Of course!

F. HELEN DURST, Age, 22. PITTSBURGH, PA. Household Economics Sewickley High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Y. W. C. A. (3, 4); Junior Prom Committee.

Loved by all who know her-and the whole school knows her.

ISABEL EARSEMAN, "IDDIE", AGE, 21. Household Economics
KNOX. PA. Edenburg High School

KNOX, PA. Edenburg High School
Athletic Association (2, 3, 4); Volley Ball (4); Guild (1, 2, 3, 4); Junior

Prom Committee.

"Most feminine girl at M. M." This quality with her "fresh, youthful heauty", won her the presidency of the "Pi Jilt" sorority. (Only member having four stars.)

BARBARA ELIZABETH ENDRES, AGE. 21. Secretarial
FAIRFIELD, ALA. Ensley High School, Ensley, Ala.

Alhletic Association (1, 2, 3, 4); Bosketboll (1, 2, 3, 4); Hockey (1, 2, 3, 4); Volley Ball (4); Student Government Association (3); Senior Representative Senate (4); Guild (1, 2, 3, 4); Secretary Y. W. C. A. (2, 3, 4); Glee Club (4).

She is a conscientious worker in her studies as well as in her athletics. She is fair-minded, true and courteous. Despite all this, she is out for all the fun coming her way.







HELEN ESHELMAN, Age, 23.

WILKINSBURG, PA.

Franklin High School

She's a little thing and not given to shouting her own praises, but of course everyone knows that she is an "Artiste" in every sense of the word. And besides—shhh—(whisper)—she is intensely interested in Socialism and Tolstoi.

L. MAUD FIRE, Age, 23.

Secretarial

Music

PITTSBURGH, PA.

Allegheny High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Y. W. C. A. (1, 2, 3, 4).

To describe Maud, you'd have to say She grows more clever every day; Then add her charm and lovely features— (Seems hardly fair to other creatures.)

IRMA FRIEDMAN, AGE, 22.
PITTSBURGH, PA.

Arts and Crafts
Peabody High School

Athletic Association (1. 2, 3, 4); Basketball (2, 3): Hockey (2); Tennis (1); Volley Ball (4); Social Chairmon (2); Head of Tennis (2); Vice-President Guild (4); Guild (1, 2, 3, 4); Business Manager Athletic Association (2).

"She's pretty to walk with, And witty to talk with. And pleasant to think on, too."

MARGARET MARY GAINES, "Peggy", Age, 21. General Science Wilkinsburg, Pa. Wilkinsburg High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Y. W. C. A. (2, 3, 4).

Not happy unless working hard, always willing to help a sister with weaker chemical ability, "Gainesy" hibernates in the laboratory. When she does emerge, we find her a good sport and ready with good suggestions. We're proud of our Science "department".









ANTOINETTE VINCENTIA GIANNOTTI, "Tony", Age. 22.

Household Economics

GALETON, PA.

Pennsylvania State College

Guild (4).

"Tony" came to us from State College and has won her way into our hearts. She is still loval to State, but is a "Techite" now.

MYRTLE GOE, Age, 23. WESTON, W. VA.

Costume Economics

Weston High School; Madison Hall, Washington, D. C.

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Vice-President Sophomore Class (2); President Junior Class (3); Commencement Ball Committee (3).

Myrtle is one of our W. Va. workers. Just a few tips—a hard worker, of course, especially in procuring historic costumes at Skibo Inn. likes dances, says "you all" and is an all-round sport.

ISABELLA GREENBERGER, "Issy", Age, 23. Household Economics CANTON, OHIO Canton High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Dromatic Club (1).

Special-delivery letters and long-distance phone calls are symbolic of our "Izzy," and yet a dictician she should be. Oh, those menus she planned, 'til our mouths fairly watered! I wonder if she will try them out in Akron?

ELEANOR T. GREENWALD, Age, 22.

Decoration

WILKINSBURG, PA.

Wilkinsburg High School

Eleanor will tell you herself that she is more fond of dancing than of Decoration; and furthermore, if pressed, she may disclose her exact opinion of Cast Figure. But don't be alarmed, for Eleanor has a way of forgetting her troubles, and if work is to be done, she does things in a true Carnegie spirit.





REGINA T. GUENTHER, Age, 23.

Decaration

Jamestown, N. Y.

Jamestown High School

She has a horror of getting fat, but how could anyone be fat who works night and day in Decoration, and who walks forty miles on a Sunday—just for a stroll—and who spends her summers climbing mountains? We have an idea that in the future she will forget the hills and mountains in a climb toward Decoration Heights.

LUCY BLANCHE HART, "Luce", Age, 21. Household Economies
FREMONT, OHIO Fremont High School

Athletic Association (1, 2, 3, 4); Hockey (2); Shilling Board (2); Guild (1, 2, 3, 4); Secretary Class (2), Treasurer (3); Junior Prom Committee; Secretary Red Cross (3); Y. W. C. A. (3, 4), Y. W. C. A. Cabinet.

Lucy is short and sweet and neat, The way folks love her can't he beat! She loves old Tech and works for it, But, nevertheless, her heart's at Pitt.

HETTY LIST HAZLETT, AGE, 21.

Social Work

WHEELING, W. VA.

Dana Hall. Wellesley, Mass.

President M. M. Social Workers' Club.

Hetty is a wonderful girl with a striking personality. If there is anything Hetty cares to do, why she learns to do it. She is an ideal combination of brains and charm.

ORRALL D. HEPBURN, "Hep", Age, 22.

Secretaria!

LISBON, OHIO

Ohio Weslevan University

Athletic Association (1, 2, 3, 4); Guild (3, 4); Y. W. C. A. (1, 2, 3, 4); Forbes Hall Hause President (4).

"Hep" hustles and bustles And then goes slow But the heart of her Is what we know.







THE THISTLE YEAR



ALICIA SELLERS GUTHRIE, Age 32. Dramatic Art
PITTSBURGH, PA. Dwight School, Englewood, N. J.
She's always ready with a come-back; one of our overseas lassies.
Her pep's the Scotch that's in her.

GRACE FRANCES HENRY, "ASIA", AGE, 22. Household Economics (Teachers)
PITTSBURGH, PA. Peabody High School
Athletic Association (1, 2, 3); Guild (1, 2, 3, 4).

A merry twinkle in her eye, A smile for all she passes by. She has the brains, we all admit, Always willing to do her bit. But my! when she gets up to talk, We think she's wound up like a clock.

EDITH HOBE, AGE, 22.

PITTSBURGH, PA.

Athletic Association (1, 2, 3, 4); Hockey Team (2); Basketball (3); Volley Ball (4); Guild (1, 2, 3, 4); Advertising Manager Athletic Association (3).

She's a darling girl, but she's so artistic she hates to wear shoes.

FRANCES G. INSKEEP. AGE, 21. Household Economics
MONTICELLO, IND. Monticello High School; Western College
Athletic Association (3, 4); Volley Ball (4).

Frances is calm and quiet

Frances is calm and quiet
With a twinkle in her eye;
Perhaps you've chanced to spy it
As she has passed you by.





ELIZABETH KELLY, "K", AGE, 22. SEWICKLEY, PA. Household Economics Sewickley High School

Atlletic Association (1, 2, 3, 4); Volley Ball (4); Hockey (2); Guild (1,-2, 3, 4); Y. W. C. A. (2, 4).

"K" has enough pep for the other fifty-nine Seniors. Her office was on first floor front, and usually occupied. She went "Nutz" in her Senior year. Is a very hard worker, altho' she doesn't look it (?).

MARGARET HULINGS LAPPE, Age, 23. PITTSBURGH, PA.

Secretarial—(Editorial)
Peabody High School

Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); "Tartan" Staff (3); Junior Prom Committee.

Dear me! there's so much to say and so little space to say it in; but I can just tell you she's a good all-around sport, and smart, too! Has a great affinity for Washington, D. C.

MARY LOUISE MACCAUGHEY, Age, 22.
GREENVILLE, OHIO

Household Economics Greenville High School

Athletic Association Guild (1, 2, 3); President (4); Y. W. C. A. Publicity Chair (3); Finance Chair (4); French Orphan Chair (3, 4).

Merry-hearted Mary Lou Works hard and plays hard, too. Sprightly ways and dancing eyes, Still with all she's very wise. (It's a secret, so don't tell, Mary Lou weans "grass skirts" well.)

HELEN ESTHER MARSHALL, Age, 25.
PITTSBURGH, PA.

Costume Economies Peahody High School

Athletic Association (1, 2, 3, 4); Y. W. C. A. (3, 4); Student Government Association (1, 2, 3, 4); Guild (1, 2, 3, 4).

A checrful word, A winning smile, What could be better O'er life's long mile?







THE THISTLE XXXXXX



MARGARET ELIZABETH MATTERN, "Murpu", Age. 21.

Household Economics
Hollidaysburg, Pa.
Hollidaysburg High School

Athletic Association (1, 2, 3, 4); Soph Hockey Team (2); Guild (1, 2, 3, 4); I'. W'. C. A. (2, 3, 4); Eaglesmere Delegate; I'. W'. C. A. Cabinet (4).

Here's to "Murphy", our Penn State girl, Whose life is always one big whirl, Aud though she likes the men, that's true, She's a practical lady through and through.

RHOBIE H. McCLOSKEY. MARIETTA JAZZ BABY". AGE, 20.

Household Economics—(Dietitian's Course)

MARIETTA, PA. Marietta High School

Athletic Association (1. 2, 3, 4); Basketball Manager (2); Guild (1. 2, 3, 4); Junior Prom Committee (3); Social Chairman (4); Glee Club (4); Stringers (3, 4).

She goes to Tech, and oh how she can cheer for Tech, but still she runs to Pitt. She's "socially ambitious", you know, but she's a nice girl just the same. For a good all-around sport you can always depend on the girl from "God's country".

ANITA CLAIRE O'CONNOR, "NEITY", AGE, 20.

Household Economics—(Teachers)

PITTSBURGH, PA. South High School

i ii i sbekun, i k.

South High School sciotion (4); Basketball (3, 4).

Athletic Association (1, 2, 3), President Association (4); Basketball (3, 4); Volley Ball (4); Dramatic Club (1, 2); Cheer Leader (3).

There is a lass, and she is fair, Athletic. coy and free o' care; A dancing sprite, an image gay, To haunt, to startle and waylay. A sweet Irish daughter of Ireland so green Is bound to be happy where'er she's seen.

JANET RUTHERFORD, "JANE", AGE, 21.

Secretarial

Washington, Pa. Washington High School; Wilson College

Athletic Association (2, 3, 4); Guild (2, 3, 4); Vice-President Mellon Hall (3); President Woodlawn Hall (4); School Auditor (4); Senate (4).

A good joke, and the Saturday Evening Post, a dance, a salad, a show and a ballad, and Janet lives happily in Woodland Alley.





MARY L. RHOADS, Age, 20. BOYERTOWN, PA. Household Economics—(Dictition)
Boyertown High School

Athletic Association (2, 3, 4); Guild (1, 2, 3, 4); Y. W. C. A. (2, 3, 4).

Mary's career at M. M. is a mere beginning, for in a few years we expect to see her at the pinnacle of success in the medical profession. However, she will have to be careful, or her vampish ways will lead her away from this well-chosen path. Mary is a big-hearted girl, and is always there when one needs a friend.

FRANCES A. ROBERTS, "Bobbie", Age. 21. Secretarial—(Editorial) South Norwalk, Conn. Norwalk High School

Athletic Association (1, 2, 3, 4); Hockey (2); Volley Ball (4); Basketboll (3); Guild (1, 2, 3, 4); "Tarton" (2, 3); "Thistle" (2, 3); Class President (2); Glec Club (4).

Tortan, TRISTLE, once president of her class. She is a jewel, a jolly lass,
What more can man desire?
This is "Bobbie", sweet as can be,
The guiding star of the Z. L. E.,
She went "out" with them.

HAZEL C. SCHAFFER, "Schaf", AGE, 21. Secretarial—(Editorial)
West Middlesex High School

Student Activities Board (3, 4); Guild (1, 2); "Tarton" (2, 3); "Thistle" (3).

She's clever with her tongue; more clever with her pen; And when she says she'll do a thing, why then She does it.

This English Minor lassie is anything but highbrow;
She fascinated Mellon Hall with that wonderful left eyebrow.
The only eyebrow in captivity that can be wiggled
at will to register every emotion known to man.

MARY BLANCHE SHEPPARD, Age. 20.

Club (4); Prom Committee.

). Social Work Fifth Avenue High School

PITTSBURGH, PA. Fifth Avenue High School
Basketball (1, 2, 4); Hockey (1, 2, 3, 4); Captain Hockey (2); Tennis (1, 2);
Swimming (2, 4); Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Dramatic
Society (1, 2); Red Cross (3); "Shilling" Board (2); M. M. Social Workers'

There's one "Maggie Murph", who goes by "Pep". For having school spirit she has quite a rep. In swimming, in dancing, in hockey, in song, She's always right there to join the throng. For sewing, 'tis true she has no special talent: In reforming the natives her efforts are gallant. Her mind in the meantime is hectic in state, To decide 'twixt the lessons and staying out late.









ANNA GLENN SHERIFF, Age, 21.

Secretarial

BLAIRSVILLE, PA.

Blairsville High School

Basketball (1, 2); Hockey (2); Tennis (1); Volley Ball (4); Captain (4); Prom Committee; Stringers (3, 4); Guild (1, 2, 3, 4), Vice-President (3); Junior Prom Committee; Stringers (3, 4); School Pionist (4).

> There's music in her fingers and music in her toes, And everybody loves her, everywhere she goes. She's very independent, and very full of wit— Has an S. A. E. pin, and is very fond of it.

MARGARET SLOAN, "SLOAN", AGE, 22. EMLENTON, PA. Household Economies Emlenton High School

Secretary Class (1); Treasurer Athletic Association (1); Secretary and Treasurer Guild (3); I. W. C. A. (2, 3, 4); Guild (1, 2, 3, 4); Athletic Association (1, 2, 3, 4).

Though Sloan's a girl quite little and slight, She does her work with all her might; And be will be a lucky man Who eats from her bowl or frying pan.

LUELLA SMITH, "H. P.", Age, 23.
KITTANNING, PA.

Household Economics

Kittanning High School

Guild (1, 2, 3, 4); Athletic Association (1, 2, 3); House President Mellon Hall (4); Senate (4).

Favorite pastime, mending sweaters for the football team. Luella is true to her convictions, and altho' she is little, she has a big heart and is always there to help.

MARGARET SONDHEIM, Age, 22.

Secretarial-(Editorial)

New York, N. Y.

Peabody High School, Pittsburgh

Guild (1, 2, 3, 4); M. M. "Tartan" Editor (3).

Here's a girl with a brain that's keen, a heart that's tender and a manner gentle and winsome.





MANILLA ALTHEE STODDARD, AGE, 22.

Social Service

WELLINGTON, OHIO

Wellington High School; Ohio Wesleyan University

Athletic Association (3, 4); Guild (3, 4); Y. W. C. A. (3, 4); Social Work Club (4).

Manilla has changed her tune,
And may change it again very soon.
Where once she hummed "Delaware, the Beautiful".
She now seems so sad and dutiful;
And with her funny, giggly sigh,
Murmurs, "I'll remember you till I die".

HARRIET STONE, "SKINNY", AGE, 27. CARMICHAELS, PA. Household Economics

. Cumberland High School

Athletic Association (1, 2, 3, 4); Basketball (1, 2, 3, 4); Hockey (1, 2, 3, 4); Tennis (1); Volley Ball (4); President Student Government Association (4); President Freshman Class (1); Senate Representative (2, 3); Chairman Red Cross (3); Treasurer Y. W. C. A. (3); Shilling Boord (2); Member Council (4); Member Guild (1, 2, 3, 4).

Conscientious "Skinny", loved by every girl, Has so many "meetings", she's always in a whirl: Forever in a hurry, forever late to class, Funny that with A's and B's she should always pass.

HELENA T. WALTER, Age, 21.
PITTSBURGH, PA.

Household Economies (Teachers) South High School

Hockey (2); Volley Ball (4); Athletic Association (1, 2, 3, 4); Guild (1, 2, 3, 4); Y. W. C. A. $(\beta, 4)$,

A great big heart, and a friend so true, Is just what everyone thinks about you.

JEAN WESSNER, Age, 20,

Music

Pittsburgh, Pa.

Peabody High School

We promised faithfully to avoid all mention of Jean's hair, but we arglad she didn't make us withhold anything else—for instance, her popularity, her enthusiasm, her good nature and her ability. Ability's You can tell just by the ease and grace with which she boards a Negley car, in company with that musical monstrosity known as a cello, that she is a musician to the manner born.









FRANCES BLAIR WING, Age. 28. New Castle, Pa. Costume Economics (Teachers)
New Castle High School

Guild (1, 2, 3, 4).

She may think she's a bird because she has "Wings", but she's a cracker of the "Graham" variety.

ALICE MARGARET WIRTH, Age, 21.

Costume Economics

PITTSBURGH, PA.

Fifth Avenue High School

Hockey (2); Basketball (2); Volley Ball (4); Guild (1, 2, 3, 4); Athletic Association (1, 2, 3, 4).

"Alice and Al"—sounds pretty, doesn't it? And mighty familiar, too. Alice can design things unusually well. Perhaps that is how she captured her victim—had designs on the poor, unsuspecting man.

HELEN I. YOUNG, Age, 22.
Bellevue, Pa.

Secretarial (Editorial)

PA. Belley

Bellevue High School

Hackey (3); Basketball (2, 4); Guild (1, 2, 3, 4); Athletic Association (1, 2, 3, 4); Tortan (2, 3); Y. W. C. A. (2, 3, 4); Treasurer (4).

"Helen I." is our coming playwright and scenario writer. Although Helen manages to have a very good time, she appears at school every day, last—but not least. She says she will never marry, which leads us to believe that she must be accompanied by girls on her various Wednesday and Sunday excursions.

HELEN YOUNG, "BILL". AGE, 23.

Househald Economies

GROVE CITY, PA. Grove City High School: Grove City College

Basketball (1); Volley Ball (4); Guild (1, 2, 3, 4); Athletic Association (2, 3); Cheer Leader (2); Social Chairman (3).

"Bill" is a good sport and always ready to help a friend. She is official date-maker of Mellon Hall, but just the same she is a member of the "Pi Jili".



ELLEN CROWE.

Dramatic Arts

PITTSBURGH, PA.

Senate (4); Class Secretary (3).

Ellen has all the charm of a mid-Victorian, tinged enough with the Russian Ballet to make her a militant among the ladies. One of the cleverest members of the Dramatic Department, and her talent will be greatly missed.

KATHRYN HARRIS, AGE, 22.

Decoration

WASHINGTON, D. C.

Central High School

"I'm from Washington; where do you all live?" were the first words we heard from Kathryn—but the fact that she lives in Washington must not detract from your interest, for Kathryn has a charming personality and a fund of wit, and the Southern inflection has captivated us









THE THISTLE XXXXX



DAVID H. ABRAMS, Age, 24. Pittsburgh, Pa. Commercial Engineering Central High School

Φ E II; Varsity Basketball (2, 3, 4); Captoin (3); Vorsity Baseball (3, 4); Fulcrum Club (1, 2, 3); Commercial Club (4); Quakers (2, 3, 4), Secretary (4); Wobbles (4).

"Lefty" would never cut a Spanish class; in fact, he was known as the class grind—I don't think. He acquired the name of "Lefty O'Hara" in his Senior Year because of his tortoiseshell glasses. "Lefty" was a basketball shark, and was prominent on the baseball team.

RAYMOND C. ALTERMATT, Age. 24. Erie, Pa. Building Construction Erie High School

 $\Delta \to \Omega$; Basketball (1); Building Construction Club (1, 2, 3), Treasurer (2), Secretary (3).

"Aldie"—the girls call him "Ray"—worried the faculty at Erie High for four years until they decided to give him a diploma. For the last three years he has been building aircastles at Tech, as well as absorbing some good practical knowledge about how to put up a building that will make the Singer Building look like a model of "Skibo Inn".

FREDERICK D. ANDERSON, AGE, 22. WILKINSBURG, PA.

Mining Engineering
Wilkinsburg High School

Metallurgical and Mining Society (2, 3, 4).

"Andy" is very ambitious, going to school both day and night. He is a regular originator of excuses for lateness; one day a drove of pigs held him up, and another time he ran into a banana orchard.

JAMES G. ALLEN, Age. 23.

Electrical Engineering

Cumberland, Md.

Allegheny County High School

Allen believes that to be an Electrical Engineer one must, above all, act electrically. This means to follow the lines of least resistance. "J. G." has acquired that fortunate trait of being able to think technically, without too much thinking in technics. We hear that Prof. Sproul and Allen will design an automobile that will revolutionize the auto industry. One of the characteristics of this wonderful machine will be three speeds to the rear and one ahead. We wish them success.





TERRENCE WENDELL ALLSWORTH, Age, 26.

Mechanical Engineering

ORDWAY, COLO.

La Junta High School, La Junta, Colo.

T B II: Σ A E; Band (2); Tartan (3, 4), Editor (3), Business Manager (4); C. M. E. S. (2, 3, 4), Vice-President (3), President (4).

(Prof.) Allsworth, the man who asked if Doc James "worked here, or is he just a professor?" "T. W.", the Denver Wildcat, fears neither water, nor China; divides his time between C. M. E. S., the Tartan, and women. A genius for work, money-making and profanity.

CHARLES L. ALTSCHUL, Age, 21, Springfield, Ohio Commercial Engineering Springfield High School

Assistant Baseball Manager (3); Vice-President Dormitory No. 2 (2); Vice-President Dormitory No. 6 (4); Commercial Club (2, 3, 4); Debating Club (1); Buckeye Club (3, 4); Quakers (4).

"Fat" is a cash register with a ring of its own. Charlie's hobby is correcting professors, thereby proving himself of invaluable assistance. He is some jazz hound, and delights in leading stake dances.

HAROLD GLENN ATCHLEY, Age, 22. HOYTVILLE, OHIO Mechanical Engineering Hoytville High School

Σ A E; C. M. E. S. (2, 3, 4); Tartan Circulation Manager (3, 4).

Four years and some months ago there dropped into our midst "Kid Harold", the child wonder. We do not know where his home is (neither does he), for every year he wanders into Pittsburgh on his motorcycle from a different direction. "Atch" can always be trusted to get things back together again.

LINDLEY DALE AUL, Age. 24.

Mechanical Engineering New Castle High School

NEW CASTLE, PA.

N. Dragon; Delta Skull, Lawtachfraric; Plebe Basketball Squad; Mech. Football Team, 1916, 1917; Freshman Banquet Committee; Saphomore Banquet Committee; Masanic Club; Mystie Seren.

Dale is a little man, but he certainly does get around the campus. His one failing seems to be Forbes Hall. It has also been whispered that Dale is strong with the ladies over at ——. Nevertheless, since he hails from New Castle, one would rather expect him to be a ladies' man.





THE THISTLE WAY WAY



HARRY KOPP BAKER, Age, 24.
DANBURY, CONN.

Cammereial Engineering
Danbury High School

Commercial Club (1, 2, 3, 4); New England Club (1, 2, 3, 4); American Association of Engineers (4).

"Sleuth", King George's prime minister, and also an employee of King Edward, never allowed a good time to interfere with his work. Harry was strong for the ladies.

GEORGE C. BALAURIE, Age, 22.
Brooklyn, N. Y.

Commercial Engineering Salem High School, Salem, Ohio

Σ A E: T B II; Wrestling (2); Musical Clubs (1, 2, 3, 4); Librorian (3); President (4); Fulcrum Club (2, 3); Commercial Club (4).

George has been part of the regular equipment of the Musical Clubs for four years. He is the Commercial Nightingale, and is fond of serenading the Margaret Morrison girls. He is very ambitious, and his future is bright.

WILLIAM EDWARD BARON, Age, 27.

Civil Engineering

McKean, Pa.

Edinboro State Normal School

Civil Engineers Society (2, 3, 4); Entertainment Committee (3, 4).

Outside of the fact that he comes from McKean and taught school in the wilds of Wyoming, he is all right. We understand from one of his female classmates at kindergarten, that in his childhood days he had nice long curls. We don't doubt it, for he still has a few left. "Bill" is one of our most conscientious workers, and is bound to make good.

LOUIS T. BARRY, Age. 26. OLEAN, N. Y. Commercial Engineering Olean High School

Σ A E: Class Football (3); Class Basketball (3); Class Baseball (3); Commercial Club (2, 3, 4); Quakers (3, 4); Secretary and Treasurer Tech Flying Club (4); Chairman Science Stag (3); New York State Club (2, 3); Historian Quakers (4); Wobblers (3, 4).

"Admiral" has a wonderful line, and we wonder how he gets through school without books. Tis said Mr. Reed furnishes him with books. He is also one of the original "Junior Commercials". Is truly a high-flyer, but doesn't indulge.





JAMES WILLIAM BATMAN, AGE, 22.

Building Construction

LURAY, PA.

Luray High School

Opheleum; A T; Dragon; Southern Club (1, 2, 3, 4); Building Construction (1, 2, 3, 4); President Class (2); Musical Clubs (2), Assistant Manager (2); Chairman Class Banquet (2); President Students Assembly (3); Member Executive Committee (3); Choirman Liberty Loan Memorial Fund (3); Member Student Conneil (3); "Thistle" Boord (3); President Students Council (4).

"Pinky", a man of great ability in many lines, specializing in executive and feminine. His motto: "Do not love one girl a lot, but love a lot of girls a little". You cannot beat a red-head.

RAY GILBERT BERGSTROM, Age, 25.

Architecture

DULUTH, MINN.

Duluth Central High School

T Γ Φ: Tech Architectural Club.

One of the few Architectural Engineers who believes implicitly in his chosen profession, and we know that success is assured for him. Besides being studious, Bergie "steps out" to all school functions, and is seen occasionally peering around the corner of the P. & D. Department.

LOUIS MERTON BLOCH, Age, 23.

Mechanical Engineering Hartford High School

HARTFORD, CONN.

B; Samaeh (Cornell University); C. M. E. S. (3, 4); Menorah (3), (Cornell) Menorah (1, 2).

He came from Cornell, but now Tech is the only school for him. This man sure does like to sing: the professors know it, too. We must say that many a time he starts something when he introduces harmony to the Mechanicals. We hear that he is particularly fond of the nurses in the Pittsburgh District.

ROBERT C. BOWERS, Age, 26.

Architecture

YORK, PA.

York High School

President Tech Architectural Club (3).

A south-pawed artist of pencil and brush, recipient of the first medal of the year. Bobby is not built on the sky-scraper plan, and often passes among his fellows unobserved, and a bit reckless—Friday night in charette week—who is this woman? As a massier, Bob, you'd make a good paperhanger.







JOHN E. BOWLER, Age, 23. Bangor, Me. Civil Engineering Bangor High School

Σ Υ; Senior Civil Basketball Team; Carnegie Clan Committee; Junior Banquet Committee; Civil Engineers Society (2, 3, 4).

Kind readers, we have with us one John Bowler who was sent to us from Bangor, Maine. If you should care for a few moments of entertainment, let him talk to you. His talk can be measured by the mile, for nothing is outside his scope of conversation. He is a first-class student and a fine fellow.

JACOB BRAVERMAN, Age, 24.

Chemistry Science

NEW YORK, N. Y.

Bakmut Imperial High School, Russia

Secretary Cosmopolitan Club (3).

Jake's theories concerning various and diverse abstract things are very importunate. His boiling-point is reached in Economics; there Jake's theories fall to pieces.

HARRY F. BREMMER, Age, 25.

Architecture

BALTIMORE, MD.

Milton University School

Dragon; T Σ Δ ; Track (1, 2, 3, 4); President Design School (4); Vice-President Student Council (4); President Board of Control (4); President Tech Architectural Club (3, 4); Junior Prom Committee (3); Class Secretary (2, 3).

Harry expected to step out into "the wide, wide", a couple of years ago, but Ole Man Mars tapped him on the shoulder, and he is with us again this year, the same ole "Brem", but stronger than ever; and he received the presidency of the school a second time. His school record has truly been an enviable one, and the drafting room and the track team will miss him greatly.

WILLIAM J. BRENNEN, Age, 22. Scottdale, Pa. Electrical Engineering Scottdale High School

2 A E; Treasurer Carnegic Branch of American Institute of Electrical Engineering, 1918, 1919, 1920.

"Bill's" Irish smile and good humor have made him very popular, but you "wanna look out" when "Bill" mistakes Prof. Work for a student. He developed an attitude toward Work in his Junior year which has seldom been excelled at Tech. "Bill" is endowed with that quality which has enabled him to come to class unprepared and to make scientific guesses which were absolutely correct.

HART W

ALEXANDER LLEWELLYN BUCHANAN, AGE, 22. Dramatic Arts
PITTSBURGH, PA. Peabody High School

 Λ X A: Glee Club (2); Author, Director and Producer of the "Bohemia Unlimited" Extravaganza, 1919.

A good Indian! If "Buck" had been named in characteristic Siwash style, he might have been called "Mawhump", meaning pep, or "Umpty Hump", cordiality, "Chow Chow", gloom-dispeller, or perhaps a combination of all three—"Mawhump Umpty Hump Chow Chow".

HENRY C. BROCKMAN, Age, 25.

Architecture

LA PORTE, IND.

La Porte High School

N; Vunior Prom Committee (3); Sophomore Hop Committee (2); Class President (2); Senate (3); Tech Architectural Club; M. P. L.; Business Manoger "Bohemia Unlimited" (4).

"Brockie" has won his way into our hearts by his spontaneous and good-natured grin that seems to be on tap for all occasions, even in those trying but most pleasant days of "Bohemia Unlimited", when he was on the job morning, noon and night, working for its success. In fact, he became so efficient, that an elaborate system was inaugurated—"The Cigarette Book". P. S.: We're square! eh, Brock?

NEAL J. CAMPBELL, Age, 22.

Civil Engineering Central High School

St. Louis, Mo.

Σ N; Dragon; Assistant Manager Football (3); Manager Football (4); Senior Civil Basketball; Civil Engineering Society (2, 3, 4), Sceretary (3).

Jewelry salesman or student, which? Yes, this even-tempered, flaxenhaired youth from Missouri came to Tech. Wby? We do not know. Apparently to sell jewelry, and manage the football team in his sparroments. Despite his jewelry, Neal is well liked by his classmates and has a line that is surpassed by none.

SAMUEL J. CAPLAN, AGE. 27.

Chemical Engineering Allegheny High School

PITTSBURGH, PA.

Glec Club. 1912, 1913, 1914; Chemists' Club.

"Cappie" snatches data on solubility of chewing tobacco in petroleum oils. Agrees with "Doc. James" that chemistry can be absorbed through tortoiseshell glasses. Was at University of Beaume, France, and came back to Teeb after four years of French environment.









THE THISTLE XXXXX



HOMER F. CAREY, Age, 23.

Mining Engineering Oakmont High School

 $\Theta \equiv : Dragon; Football (2, 3, 4); Basketball (1, 2, 3, 4), Captoin (4); Mining and Metallurgy Society (2, 3, 4).$

"Scoops" celebrated the return of the Engineers by chasing the Pitt student body up their own campus. He is going to open a mine in New York under the Woolworth Building, in order to be near a certain girl who likes aviators. Carey wishes that the faculty would co-operate with the Davis Theater management in arranging schedules.

GILBERT CHURCH CLARK. Age. 23. Washington, D. C.

Commercial Engineering Eastern High School

ΣΣΥ: Τ Β Π: A A N: Dragon; Glee Club (1); Fulcrum Club (1, 2); Editor-in-Chief "Thistle" (3); Custodian of the Seal, Quakers (4); Commercial Club (Vice-President (3), President (4); Interfraternity Council (3, 4).

"Champ", the senator from Washington, is the chief engineer of the good ship "East Liberty Y. M. C. A.", shoveling gas being his specialty. He is a sleepless wonder, worked his way through school and still made Tau Beta Pi. He is quite some editor.

MARTIN IRVING COHEN, AGE, 21. New York, N. Y. Commercial Engineering Townsend Harris Hall

Φ Ε Π: Interfraternity Basketball (1, 2, 3, 4); C. I. T. Debating Society (1); Band (3): Commercial Club (1, 2, 3, 4); "Torian" (2, 3, 4), Assistant Advertising Manager (3), Advertising Manager (4).

"Moiphy" has aspirations to be a New York policeman. It is also said that he takes a bath every time he goes East. He is known as the suit and cloak shark from New York, his principal side issue at Tech being to induce the Pittsburgh merchants to advertise in the Tarlon.

HAROLD GILBERT CULIN, AGE, 22. Electric Equipment and Installation ALLENTOWN, PA. Central High School, Bethlehem, Pa.

Opheleum; Avo Club (1, 2, 3), Secretary (2), President (3); Band (1, 2, 3), Drum Major (3); Assistant Tennis Manuger (2); Divisian Cheer Leader (2); Student Organization Committee (2); Student Organization Committee (3)

Three times three for "Rummy", the lad that knocked the -ELL out of Cornell's ninety-three-piece band. He is always full of the spirit of TECH, and a "hard, conscientious worker". When it comes to dancing, well, he is in a class of his own; and OH! how he can shimmine.

:

THE THISTLE YES

CLARENCE HAYWOOD DAVIS, Age, 22. Mechanical Engineering FARRELL, PA. Farrell High School

 Σ A E; C. M. E. S. (2, 3, 4). Treosurer (4); Wobblers (4). "Dave" is a man who comes from Farrell—but who wouldn't? He and girl go pretty well together, and they say he likes to go to the South Side to visit relatives (2). He can't lie to us, because we know why. He is our authority on "Language" and chewing tobacco.

LEO EVERETT DEITRICH, Age, 24.

Physics

HUBLERSBURG, PA. Walker Township High School

Leo does not let 8:30's worry him one bit. The class begins when he comes around. He was never known to be in a hurry, but he gets there every time. Very thoughtful and will surely make his mark in his chosen field at Physics.

LIVINGSTON DISBROW, AGE, 22. NORWALK, CONN. Mechanical Engineering Norwalk High School

Τ Γ Φ; East Dormitory Football (2); C. S. M. E. (2, 3, 4); A. A. E. (4).

"Dis" comes from a little Quaker town in Connecticut, and he seems to live up to the Quaker ideals. He has many contentions with himself as to whether social duties or studies should come first. He evidently lets his social duties prevail sometimes. Though slow, he is like a postage stamp, he will stick till he gets there.

CLARENCE ROBERT DOBSON, AGE, 24. Commercial Engineering
CEDAR RAPIDS, IOWA Cedar Rapids High School

T B II: Commercial Baseball (3); "Tartan" (2, 3); Chorter Quaker—President Quaker Club (4); Commercial Club (4); Fulerum Club (2, 3); Masonic Club; Senior Commercial Representative; Sophomore Mechanics' Scholarship, 1916.

"Dobby" is the nerviest man in class. Geck says he has the greatest analytical mind in Tech. No wonder he made Tau Beta Pi. "Dobby" can always recommend something "good to cat".







THE THISTLE XXXXX



JOSEPH DOPLER, AGE, 22.

Machine Construction
Dunkirk High School

Tech Mechanics Club (3).

Wafted on the atmosphere in the cadence and tone of a funeral march, you may frequently hear the ditty. "One Keg of Beer for the Four of Us". It's only "Wild Joe" from Dunkirk.

WILLIAM EDWARD DOUGHERTY, Age, 21. Chemical Engineering Tarentum, Pa. Tarentum High School

Σ N; Chemists' Club (2, 3, 4), Vice-President (4).

"Doc" devotes two hours a week to the science of "Five Hundred". His week-end trips to Tarentum have deprived many "Maggie Murphs" of their "Chance in Life".

FRED B. DREIFUS, Age. 21.
PITTSBURGH, PA.

Metallurgical Engineering Peabody High School

Chairman Junior Prom Committee (3); Metallurgical and Mining Society (3, 4), Treasurer (3); Junior Associate Member American Institute Mining Engineers (4); Student Member Associated Engineers (4).

One man in the class who has common sense—he came from Pitt. "Barney" has the hardest schedule in school—he even admits it. His favorite studies are Physical Chemistry and Economics. He likes waitresses, wine, and women, and claims that you can't have a Junior Prom without music.

ARTHUR LAWRENCE ELLIOTT, AGE. 22. Commercial Engineering Glen Cove, N. Y. Sewickley High School

Σ A E; Baseball (3, 4); Commercial Club (2, 3, 4); The Quakers (4).

"Swede" is Horst's understudy in Spanish. He is a teacher in Penmanship and English, but no one can read and understand his writing. He always calls for coffee at Charley's place. He was a sailor of the good ship "Hardship" in the fresh-water navy.





MILTON EPSTEIN, AGE, 21.

puddles on our beloved campus.

Chemical Engineering
Manual Training High School

DENVER, COLO.

"Eppie", the only man known who can write upside down. The steady scratch of his pen leads us to believe that oil, rather than ink, should be used. Hails from Denver, and as a "Gob" has sailed across many

MARCUS A. FAIR, Age. 24. DuBois Pa Commercial Engineering DuBois High School

\$\(\Sigma\) N; Dragon; Delta Skull; Lawtochfraric; Band (1, 2, 3); Senate (2, 3, 4); Treasurer (4); Freshman Regulation Committee (3); Class President (3); President Interfraternity Council (4); Masonic Club; Quaker (4); Fulerum Club (2); Commercial Club (3, 4).

"Marcus Willie Fair" got seven cents an hour in his Junior Year in accounting, but we hope he makes more when he graduates. He is a big fellow with a little whistle. Marcus is popular with the ladies, but it is hard to tell who stands first.

FRED E. FLADER, Age, 22.

CASTILE, N. Y.

Mechanical Engineering Castile High School

C. M. E. S. (3, 4)

Fred claims that he gets splinters in his fingers every time he scratchehis head, but we honestly believe that he has something more noble than wood therein. We usually see him around the Dean's office. He claims that he has important business there. Maybe he has, because Fred is the only married man in the section.

GEORGE N. FLOCOS, Age, 32.

Electrical Engineering

Ріттѕвикси, Ра.

Greek Gymnasium, Athens, Greece

Cornegic Tech A. I. E. E. (3, 4); Cosmopolitan Club (3, 4).

Flocos is one of the chief exponents of personal liberty in the electrical section. He does not believe in memorizing too many details, to be quickly forgotten, and he says he intends to throw his slide rule away after graduation. He is a very methodical student and requires a mathematical demonstration for everything, including the "shimmic".











EDWIN EDWARD FLYNN, Age, 21. Olean, N. Y. Machine Construction Olean High School

Captain and Manoger "Flynn's Backyard Stars", (2, 3); Dormitory Association (1, 2, 3); Chairman Tech Mechanics' Club (2, 3); Class Smoker (2).

The boy wonder of Olean, and the pride of his parents. His agility in jumping freights manifests itself in the ease with which "Ed" acquires new dance steps. He organized and managed "Flynn's Backyard Stars"—Tech's only winning ball team in 1919.

WILLIAM C. FOX, Age, 26. Put-in-Bay, Ohio Metallurgical Engineering Put-in-Bay High School

Chemists' Club (2); Metallurgy Society (3, 4), Treasurer (4); Buckeye Club Secretary (3, 4); A. A. E., Jr., Member, Secretary; A. I. M. E., Jr., Member; Newman Club (2, 4); "Hot Blast" Editor (3); East Dormitory Gorening Board (3), President (4); "Tartan" Business Staff (4).

The hardest worker of the gang, as Doc's assistant he took special delight in flunking out Soph Metallurgists and Chemists. He came into our class after making poisonous gas at Edgewood. Md. He wanted the last year to be easy, so he could outshine Pete in his favorite pastime, dancing.

D. B. GAWTHROP, Age. 23. Wilkinsburg, Pa.

Chemical Engineering North Denver High School

Θ Ξ: Tennis Team (3); Junior Prom Committee; Chemists' Club (2, 3, 4); Interfraternity Council (3): Chairman Interfraternity Dance Committee (3).

"Don, the Economics Wildcat", spends Saturdays in California, and noon hours at "Maggie Murph"; says he doesn't like the women, but we have yet to find the female whom he hasn't asked for a date. Pastine: Flooding Laboratories.

CLARENCE HOWARD GENS, Age, 22.

Civil Engineering

Fredonia, N. Y. Fredonia Normal School

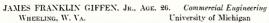
\(\Sigma A \) E; Freshman Basketball (1); Senior Ciril Basketball; C. E. Society (2, 3, 4); A. A. E. (4).

In the fall of 1916 an exceedingly loud noise was heard on the campus, and since then there has always been more or less of a rumpus whenever Clarence was around. "Jack" is quite a rusher, especially when it comes to the women. He always has his work out ahead of everyone else—not saying how well it is done.









∑ A E: Delta Skull; Lawtochfrarie; Cross Country (1); Track (3, 4): Class Vice-President (3), President (2), Vice-President (1); Science School Senate (1, 2, 3, 4); "Thistle" Board (3); Junior Prom Committee (3); Fulerum Club (2); Commercial Club (3, 4); Interfrateruity Council (3, 4); Quakers (3, 4); Wobblers (4); Masonie Club (4)

"Jimmie", the J. P. Morgan of the Commercials, and President of the Wheeling Dollar Savings and Trust Company, is always ready to have an "Honest scrap", and especially believes in patronizing Wheeling stogies. He runs indicator cards on steam turbines, and discovered a new use for the Prony brake. Ladies' man.

ISRAEL GOLDMAN, Age, 29.

Mining Engineering

CHICAGO, ILL.

Rock Island High School

Φ E II; Track Squad (2); Cross Country Team (3); Mining and Metallurgical Society (2, 3).

"Sunny" Goldie tried to convince Prof. Crabtree that the Senior Mining schedule was too heavy. Prof. Crabtree agreed, heartily, by adding seven more hours. "Sunny" admits he runs the Chemical Lab. of J. & L. Steel Plant.

HARRY GINSBURG, Age, 23 PITTSBURGH, PA.

Civil Engineering Central High School

Φ E II; C. E. Society (2, 3, 4), Vice-President (3); Reporter C. E. Society (4).

Give him plenty of time for cross-examination, "Ginny" seldom fails to obtain enough information from the prof to go ahead with the recitation. He got through the first two years by hard work, worried through the Junior Year, and neither worked nor worried through the Senior Year. He'd sooner worry than work, and sooner not than either. His ambition is to revise "Pop's" book on Structures.

HAROLD M. GRAHAM, Age. 23. PITTSBURGH, PA.

Mechanical Engineering Fifth Avenue High School

Radio Club (2): C. M. E. S. (4).

Graham is very conscientious about school work, and some days be thinks he doesn't need to come, so he stays in bed. We can forgive him for this, because he gets away with things, anyway. We believe sometimes that he must study in bed.









M. EDWIN GREEN, Age, 23.

Architecture

Kerhonkson, N. Y.

Σ P; Delta Skull; Sennachie; Dragon; Vorsity Basketball (2), Captain (3); Track (1); Closs President (2, 3); Glee Club (1); Vice-President New York State Club (2); T. A. C.; President Tech Flying Club (4); President Student Senote (4); Student Council (4); "Tartan" (2); Senior Reception Committee (4); Design Ball Committee (4).

We all wondered why "Ed" was so different until we heard the name of his home town, but despite this drawback he has been one of the most active, popular men in school since he breezed in. His antebellum pastime used to be basketball, and he captured the 1917 Varsity. But now-well, he'd rather call a Senate meeting.

EDWARD McCULLOUGH GRIFFITHS, Age. 23.

Mechanical Engineering

INCRAM PA

Crafton High School

Tennis Teom (3, 4); Glee Club (2, 3); C. M. E. S. (4).

Where is there a man who never gets angry? Such a man is "Griff". Even though he does commute from Ingram, a smile is always on his lips. And worry—seems that he has none. If goodfellowship has anything to do with success, "Griff" will sure be a great man.

HARRY E. HALDEMAN, Age. 21.

Chemistry Science Mansfield High School

LEXINGTON, ORIO

President Dormitory No. 4 (4); President Buckeye Club (4); Secretary Chemists' Club (4); "Tarton" Staff (4).

In 1916 there appeared on the Tech campus a demure little youth from Ohio. He was green, oh much! but after four years of constant exposure to Technology he is the pride of his class. In Sunday clothes he is a killer, and in a Laboratory apron he is a scientific wizard. Pastimewriting letters to Ohio.

LAURENCE H. HALE, Age, 26, HARTFORD, CONN.

Electrical Engineering Hartford Public High School

Τ Γ Φ; Τ Β Π; Radio Club (1, 2); Science Stag (2); A. I. E. E. (2, 3, 4); A. A. E. (4); Class Vice-President (3); Committee on Statistics (3).

"Larry" is from Hartford, by Heck! He came to Pittsburgh in 1914 to study Electrical Engineering. After two years in France with the Engineers, he came back to get a goatskin. He has a good record at McDougal's.





THE THISTLE YEARS

RAYMOND HAWKE, Age. 21. PITTSBURGH, PA. Industrial Education
Fifth Avenue High School

Band (2, 3, 4); Business Manager Band (4); Club Room Committee (1); Big Four (3); Teachers Club (1, 2); Athletic Representative (2).

"Jerry" is a very popular boy in the school. He is very industrious, especially in the Wood shop about Christmas time. It is reported that our "Jerry" is contemplating matrimony. Poor boy, we wonder what made him sore at himself. Can you hear him?—"Let's go, Tech!"

EDWARD F. HIRSCH, AGE, 24.

Civil Engineering

PITTSBURGH, PA.

Carnegie Tech Night School

θ Σ: T B Π; Delta Skull; Dragon; Tennis Manager (3, 4); Senior Civil Basketball; Secretary Civil Engineers' Society (θ); Secretary Class (3); Chairman 15th Engineers' Reception Committee (3); Science Stag Committee (3); Elected Editor "Thistle", (3); Geo. H. Smith Scholarship (4); Secretary Leader (1).

Read his honors; he admits them! so why argue? "Eddie" is a steady, hard-working student, and yet finds time for numerous activities. If we had more of his kind here, this school would be improved. Ask "Eddie" how to build a Gym. by petition.

WALTER H. HOLMQUIST, AGE, 27.

Architecture

WASHBURN, WIS.

Washburn High School

Here's to the Option who is not afraid to do research work in construction, but some of us are wondering why he didn't change to Option I. since the Gas Station competition. You sure do know how to pick the good ones, Walter!

HOWARD E. HORNICKEL, Age, 25. Pittsburgh, Pa. Metallurgical Engineering Kiskiminitas School

веп.

Was for two years at the Colorado School of Mines. Though not with us the entire four years, those who have come in contact with him realize that Carnegie Tech has profited by his presence. He has won a place in the hearts of his classmates, and merits their highest esteem.









THE THISTLE YEAR



LOEWY HOTT, Age. 24.

Keyser, W. Va.

Mechanical Engineering
West Virginia Preparatory School

Σ A E; C, M, E, S, (2, 3, 4); Glee Club (3, 4); A, A, E, (4); Radio Club (1, 4); Wabblers (4).

This native son of West Virginia came to us with many undeveloped characteristics. We always picture him with eyes half closed, picking out some Southern melody on the banjo. Cheer up, "Buzz", your talent can be used in comic opera, and Engineering as a side issue. We claim that he comes next to Trinks as a slide-rule artist.

SHINGO ICHIKURA, Age, 28.

Electrical Engineering

Tokyo, Japan

Mount Hermon School, Mt. Hermon, Mass.

A. I. E. E. (3, 4).

Our delegate from Japan, $\frac{1}{3}$ =? Prof. Dennison says it can be found without a slide rule. Ichikura's Electrical World was printed with vector diagrams which even Prof. Dennison failed to understand.

TELESPHOR J. JENDRASIAK, AGE, 22. Electrical Engineering
BUFFALO, N. Y. Masten Park High School

Basketball Darm 1 (4); A. I. E. E. (2, 3, 4); A. A. E. (4); New York State Club (1, 2, 3, 4); Darm Governing Board (4).

"Telepathy", the man who made "Beans" famous. "Somebody's gonna get licked". "T. J." likes nothing better than to razz the Dorm Plebes. If an instructor hesitates in calling the roll, "Jen" answers "Here". He also maintains that the object of a hydraulic experiment is to keep dry.

R. NEAL JONES, Age. 25. JOHNSONBURG, PA. Electrical Engineering
Johnsonburg High School

Woodlawn Club; Class Treasurer (3); Secretary A. I. E. E. (4); Radio Club (4).

"Jonsey" is another man who, like the cat, came back. In fact, "Fat" came back several times, having taken his college education in various doses, ranging from 1913 to the present—two years of which time he spent hurling pink ohms and barbed microfarads at the Germans.





RAYMOND DEXTER JUNKINS, Age, 25. Power Plant Operation and Management

UNION CITY, PA.

Union City High School

A T; A. I. E. E. (2, 3); C. S. M. E. (4); Radio (2); Aro (2, 3).

Does anyone remember when Machinery Hall had no tower? Ask Junkins, he was a Plebe at that time, for even in Charlie Kurtz's there is no record of his coming here to school. He returns now, after a twoyear trip in Europe, expenses paid, to receive the finishing touches in P. M. O.

ARTHUR JOHN KERR, Age. 22.

Mechanical Engineering Kittanning High School

KITTANNING, PA.

Σ A E; T B II; Glee Club (3, 4); C, M, E. S. (2, 3, 4); "Tartan" (3). "A. J." has been unanimously elected as the class fusser. He has spent quite a bit of time designing an adjustable engagement ring. It is not yet decided whether he is attending Tech, or P. C. W.

GEROLD V. KING, Age, 25.

Marion, Ohio

Chemical Engineering
Marion High School

Chemists' Club (2, 3, 4); Eost Dorm President (3); Dormitory Dance Committee (4); Buckeye Club (4).

G. V. stands for "Great Velocity". The only time he wasn't the first one through an Exam was the time he broke his pencil. Evening hourspent on Economics and the small bush that adorns his "hair lip."

IRVING N. KING, Age. 22.

ASPINWALL, PA.

Commercial Engineering Aspinwall High School

S. P. Class Baseball (2); Class Bosketball (2); "Puppet" Board (1, 4). Assistant Business Manager (2); Interfraternity Dance Committee (3); Commercial Club (3, 4); Quaker Club, Treosurer (4); Wobblers (3, 4); Fulerum Club (2).

"Kink" was popular on the *Puppet* staff, and is noted for his editions of the Christmas Calendar. He is the Beau Brummel of the class, and is one of the original Junior Commercials.







THE THISTLE YEAVEN



MYER KITAIF, Age, 26. Pittsfield, Mass. Commercial Engineering Albany High School

 Φ E II; Quakers (2, 3, 4); New England Society (2, 3, 4); C. I. T. Debating Society (3); Commercial Club (3, 4).

"Kitty" is the bird we want to sit next to in Spanish. We want to know why he expects mail three times a day. He is a broker, as he is always broke.

CARL LOUIS KNAAK, Age, 23.
McDonald, Pa.

Machine Construction

Tech Mechanics' Club (1, 2, 3).

Carl is one of those easy-going, quiet fellows whom everyone will miss when he leaves. When it comes to Mechanical Drawing he is right on the job. Some day he will enlighten the world with some novel invention—a spatterless egg-beater.

KENNETH K. KNAELL, Age, 23. Mars. Pa. Electrical Engineering Mars High School

Σ A E; T B Π: "Tartan" Staff (3); Senate (3); A. I. E. E. (2); Vice-Chairman (3), Chairman (4).

One of Mar's Knaells, which we can see without Uncle John's aid. Knaell says to solve an A. C. problem, use all the data given, make three guesses, and use the last. It is rumored that "K. K." possesses a rare collection of books on Gynecology, the study of which is his hobby.

EDWARD VANLEER KRAMER, AGE, 21.

Machine Construction Bucknell University

 Φ K Ψ ; Football Squad (1); Dorm Association (1, 2, 3); Tech Mechanics Club (2, 3); Flynn's Backyard Stars (2, 3).

The keeper now swings open the door and discloses in the adjoining cell no other than our old friend, Ed. Kramer. Delicately built, like a trench mortar, he is one of those fellows who can wear an alarm clock for a wrist watch and look well in it. Always ready for an "Honest Scrap".





ADRIAN BLOOM KREBS, Age 24.

Ciril Engineering

Williamsport, Md. Carnegie Institute of Technology, Division of Arts

Θ Ξ: Southern Club; Cross Country (1, 2); Track (1, 2); Senior Civil Baskethall.

Some afternoon you can see the gang in the drafting room gathered around Krebs' desk, listening. Hist! what's up? Suddenly a burst of loud laughter, and then you will know that he has sprung his latest joke. He knows more funny stories than Abe Lincoln and Mark Twain put together. With a line like this he ought to land a pretty soft job.

RAYMOND LEROY KREIDLER, Age, 21.

Chemical Engineering York High School

Σ A E; Glee Club (3, 4); Chemists' Club (2, 3, 4), Treasurer (3); Soph-Plebe Conduct Committee (2).

"The Pennsylvania Dutchman". His innocent face gains him the added company of the girl's brother when he goes to a dance; consequently, he likes "Moonlight Waltzes". A member of "Science of Five Hundred" Club.

HARRY D. KRUMMELL, Age, 23. Pittsburgh, Pa. Mechanical Engineering Central High School

Z A E: T B II; Cross Country Squad (2, 3); Mech. Football (3); Wrestling Team (2); Science Stag Committee (1); C. M. E. S. (2, 3, 4). Secretory (3). President (4); "Gear Groan" (3, 4); Member Mystic Seven

Hot dog, she runs! What? Why Andy's "Sheet Metal Elizabeth", of course! The Mystic Seven never walk—at least not when the tin chariot can boast of a supply of ye good olde B-Zol. Andy is the hustler for the Steel Works Gaug. He is cheery, big-hearted and ready for anything.

FRANK I. LAWSON, Age, 25.
Minneapolis, Minn.

Electrical Engineering North High School

Δ T; T B Π: Track Team (2, 3); Crass Country (2, 3); Varsity Clan Class Secretary (3); Science Senate (3).

"Fi" has been a noteworthy student ever since his matriculation in 1914, and he has come back this year after two years in the army, full of the same old pep. Always active, he is back on the job with both feet. Liked by all. His particular hobby is to devise short-cut methods to climinate surplus work.









THE THISTLE YEAR



RUSSELL KENNETH LEE, AGE, 22. Metallurgical Engineering
PLAINFIELD, N. J. North Plainfield High School

\$\simeq P: T B II; Cross Country Squad (4); "Tartan" (2); Vice-President Interfraternity Council (3); Mining and Metallurgy Society (2, 3, 4); A. A. E. (4); Junior Member American Institute of Mining Engineers (4).

We like to think of "Russ" or "R. K.", as he is better known, when he was a plebe, but we can't. He used to be shy and bashful and everything—but—well. Utah had its effect on him. and from all reports he's going back. Just a quiet chap, with common sense and a good head. Plainfield doesn't make them better.

N. F. LE JEUNE, Age, 24. DETROIT, MICH. Chemical Engineering Sandusky High School

Larry Frederick took a trip to Detroit, and now claims he's married. Ask him why he learned to skate and dance since coming to Tech. Pastime—verifying "Doc James's" data on coal.

SAMUEL S. LEVIN, Age, 21.
Baltimore, Mp.

Chemistry Science
Baltimore City College

A II: Chemical Club (2, 3, 4).

"Sammy", the scientific wonder from "Baultemor". He has been a great help to Werner in writing up his valence theory. Sammy has also been prominent in Agricultural Engineering.

CHARLES KENNETH LITTLE, Age. 26.
Toledo, Onio

Cammercial Engineering Scott High School

Δ Υ: Lawtochfrarie; Delta Skull; Dragon; Manager Track (3); Senate (4); Radio Club (1), President (2); Musical Clubs (4).

"Casey" is a radio fiend, being one of the founders of the Radio Club. "He's gone, girls!" and we believe another good man has gone wrong. Was never on time for a roll-call—how did he get away with it?







L. EARL LORA, Age, 24. Salem, Ohio General Equipment and Installation Augusta Military Academy

K ∑ P; Avo Club (1, 2, 3); Dormitory Association (1, 2, 3).

"Buck" is noted for his week-end trips to Salem. Nobody has found out the reason for his frequent migrations, but rumors are around in numbers. "Buck" has probably had more pressing engagements than any man in school.

ROBERT F. LUNGER, Age. 22. Danville, Pa. Mechanical Engineering Danville High School

Σ A E; "Tartan" (2, 3, 4); C. M. E. S. (2, 3, 4); Wobblers (4).

"Bob" is a very quiet, harmless, good-natured creature, manner mild as a tropical caim. He holds himself aloof from such corrupting temptations as wine, women and song. He is as slow and as sure as Prof. Estep. Bubbling over with dry humor and philosophy. "Still water flows deep".

PHILIP PENCE MARSHALL, Age, 24.
PITTSBURGH, PA.

Civil Engineering Peabody High School

∑ N: Lawtochfrarie; Delta Skull; Drogon; Football (1, 2, 3, 4), Coptain (4); Senior Civil Basketball; President of Sophomore Class. 1916.

"Remember the time when 'Phil' made that 93-yard run for a touchdown against Pitt. 'n' we nearly went wild. 'n' threw our hats, confetti, 'n' megaphones in the air. 'n' hugged each other?' "Oh, boy' you bet we do". "Phil' was the only Tech man to play against Pitt four times, and he sure got in the last time. Phil is a true Tech man and here's wishing him many touchdowns in the long run of life.

THOMAS WILLIAM MASTERMAN, Age, 20. Muchine Construction Greigsville, N. Y. Greigsville High School

Tech Mechanics Club (2, 3).

"Red" arrived here four years ago from Greigsville, and the first day got the roof of his mouth sunburned looking at the tower of Machinery Hall. A here among the boys at home and an authority on life in a big city.









HAROLD ELLSWORTH MATEER, AGE, 21. Chemical Engineering St. Louis. Mo. Entered from Washington University, 1919.

Σ A E; Chemists' Club (4).

"Harold dear". When his folks come to Pittsburgh they call him up at "Forbes Hall". Claims Pittsburgh much drier than St. Louis, and by the speed of his Lab work, must believe he is still at Washington University.

JOSEPH P. McCURDY, Age, 22. Piota, Ohio Metallurgical Engineering Piqua High School

Band. (2, 3); Metallurgy Society (2, 3, 4); Buckeye Club (4); Musical Clubs (2, 3, 4); A. A. E. Jr., member (4); A. I. M. E. Jr., member (4); East Dorm Governing Board (3); Vice-President (4); Dorm Dance Committee (3, 4).

The Metallurgical gang tried to make Peter the goat of many jokes, but he seemed to bear them fairly well on his broad (??) shoulders. His chief hobby is dancing, and raving about a different girl every two weeks. Yie, Undergraduates, take a tip from "Mac"; he put one over in examinations on the profs by writing so that they could not read his writing and they usually gave him the benefit of the doubt. As a Metallurgist, "Mac" would make a good elevator man.

WAYNE S. McKEE, Age, 25.
BUTLER, PA.

Mechanical Engineering Butler High School

Σ A E; Mechanical Football Team (3); Vice-President C. M. E. S. (3).

Butler must be one fine town. Oh no, it isn't that, but we can guess. Anyhow, "Mickey" spent most of his time there, and what for—well, we can guess. You'd think he was very quiet and bashful, too, but we'll say that you don't know him. We do.

HOWARD EDISON MELANEY, AGE, 25. PITTSBURGH, PA. Machine Construction Peabody High School

Tech Mechanics' Club (2, 3).

"How" is one of the shining lights in the class. He was the critic for all the productions at the Sheridan Square during the last four years. Will be remmebered as the expert in Qual Lab.





JAMES D. MILLER, Age, 23.

Chemical Engineering

HARRISBURG, PA.

Harrisburg Technical High School

Track (4).

"Jim". Wanted—a position as a husband by a good, steady and sober man. An expert on chemical processes in Germantown, qualified shotputter and piano mover. He expects to be a coke-mover when he grows up.

JAMES LEDLIE MILLER, Age, 25. Wellsburg, W. Va. Mechanical Engineering Wellsburg High School

Θ Ξ; Delta Skull; Dragon; Second Assistant Manager Basketball (2). First Assistant Manager (3); Manager Sophomore Hop Committee; Chairman Junior Prom Cammittee; Plebe Banquet Committee; M. E. Society; Mystic Seven.

"MyJsize is no handicap", says Shorty, "I can wear boy's clothing and ride to New York for half fare". Note—Shorty's home is in West Virginia. If Shorty and Pop Staples were stockholders in the Jenkinson Stogie Company, they would be making each other rich. Shorty will soon be rich, however, if he puts the same pep into his work as he put into school activities.

RUSSELL KENNETH MONTGOMERY, Age, 25. Civil Engineering Crafton, Pa. Crafton High School

C. E. Basketball (4); C. E. Baseball (2); Senior Civil Basketball; C. E. Saciety (2, 3, 4).

A quiet youth of few pretensions, seldom seen on the campus, but who does his work thoroughly and with understanding. Through his unassuming ways he has gained the respect of his classmates. He is always willing to help, and will without doubt quietly forge ahead. Was for two years with the Fifteenth Engineers.

JOHN HERBERT MOORE, Age, 22.

Industrial Education
Fifth Avenue High School

Pittsnurgh, Pa.

President Teachers' Course (4); Secretary and Treasurer Teachers' Club (2), Teachers' Club (1, 2); Big Four (3); "Thistle" Baard (3).

He believes there is safety in numbers. Watch yourself, John, this isleap year, and don't forget the H. C. L. He always says what he thinks. No good times go begging when he's around, for he's always got that laugh with him.







THE THISTLE NEW YORK



WAX THE

E. HOWARD PAFENBACH, Age, 23, PITTSBURGH, PA.

Metallurgical Engineering Peabody High School

Σ P: T B Π: Dragon; Delta Skull; Lawtoehfrarie; Class President (1); Banquet Committee (2); "Tartan" (2); Club Room Committee (2); Assistant Cheer Leader (2, 3); Freshmon Regulations Committee (2); Chairman (4); P. T. Committee (3); Juniar Prom Committee (3); Science Senote (2, 4); Student Branch of American Institute of Mining and Metallurgical Engineering (2, 3), President (4).

"Pafe" is one of our most popular classmates. He is the only member of his class who has been elected to every honorary society in the school. It is rumored that he bit only once, and that was on an Indian turnip.

GEORGE McK. PAULSON, Age, 27. Mechanical Engineering PITTSBURGH, PA. Alden Academy, Meadville, Pa.

Band (1, 2); Design School Orchestra (2); C. M. E. S. (2, 3, 4),

Here is one of the old reliables back in our midst again. He has had the job of getting re-acquainted with the Mechanicals, and be thinks we are some gang. We are! It comes handy in Lab to have a man in our midst who does some work.

ALFRED PAULUS, Age, 23.

READING, PA.

Chemical Engineering Reading High School

I Σ Δ; Chemists' Club (2, 3, 4), Treasurer (3); A. A. E. (4).

"Al" or "Palace"-a dye shark, inasmuch as it took him one year to make "Malachite Green". A member of the Gob contingent, and has sailed on every barracks at the Great Lakes station.

WAYLAND ROBINSON PORTER, Age, 24. Civil Engineering AMBERST, MASS. Amherst High School

Seniar Civil Basketball (4); C. E. Baseball (2); New England Club (1, 2,-3, 4); C. E. Society (2, 3, 4).

Here's to Porter, the jolly-faced, good-natured youth. Works to beat the band, but in spite of it is always cheerful and has a ready smile. He plays as hard as he works—you ought to see him play on the Senior Civil Basketball team; oi! oi! A steady man and dependable, who can do the work assigned to him.





LEOPOLD A. PROCH, Age, 22. Terryville, Conn. Mochine Construction
Terryville High School

New England Club (1, 2, 3); Tech Mechanics' Club (1, 2, 3).

The foundry, oh yes, that's "Lapes" hobby. He did not even have a little wren in Pittsburgh, but, oh boy! those letters to Connecticut were written with such pains, and so frequently, too.

MASON A. ROGERS, Age, 21. Niles, Mich. Chemical Engineering
Albion College

Δ T Δ: Chemists' Club (2, 3, 4).

"Kid Mason", Prof. Stevens' left-hand man and coal crusher. His gold-teeth smile would win him any girl in Niles, Mich., but his innocent baby face bids Pittsburgh girls beware.

A. J. ROSENGARTH, Age, 21.

McKeesport, Pa.

Chemical Engineering
MeKeesport High School

Chemists' Club (2, 3, 4).

"Rosie", "The McKeesport Tough", a member of the "Five Brothers" and a Pittsburgh wonder. Was seen once with a woman, but we think it was his brother's girl.

SHIZUO SASAKI, AGE, 25.

NAGASAKI, JAPAN

Power Machine Operation Nagasaki High School

Aro Club (3); Cosmopolitan Club (3); Japanese Student Club (1).

"Sacky" from Nagasaki in the land of the rising sun, is a real Techman. He says he came to Tech on a bet, but is glad he lost. His favorite pastime is showing visitors from the Far East around the Institute.







THE THISTLE XXXXXX



DAVID C. SAYLOR, Age, 24.

Mechanical Engineering

Fallsington, Pa. Westchester Normal School \(\Sigma \) A E; Faotball Squad (2, 4); Secretary C. M. E. S. (3).

"Dave", the toy submarine, is a nice little boy, not fat, but just pleasingly plump. Dave is a scholar and a man, the only Senior Mechanical on the football squad. He lets the profs get away with nothing. His favorite expression is "Whoa, hold on a minute, Professor. I don't believe that".

GEORGE F. SCHAEFER, Age, 22. RAMSEY, N. J. Chemical Engineering Ramsey High School

Chemists' Club (2, 3, 4).

"Schaff", our married man, and since his Trust, Honor and Obey Agreement, we conclude his heart was in his Work. A.N.J. shipbuilder who gets Thistles from South America. As a chemist he is some little machinist.

WILBUR C. SEABRIGHT, Age, 23.

Metallurgical Engineering
Martin's Ferry High School

EDT; TBIR: AAN; Sales Manager "Thistle", 1919 (3); Metallurgical and Mining Society (3, 4); Student Member American Association of Engineers (4); Junior Associate Member American Institute Mining Engineers (4).

Better late than never. The day that "Duke" came to class on time we had a holiday. He especially enjoys sleeping in King George's lectures, but you can't blame him much. His long suit is "Whimsical Widows", and he is credited with introducing the "shimmie" in the Middle West.

JACOB SHAEFFER, Age, 23. Pittsburgh, Pa. Chemical Engineering Peabody High School

"Jake" or "Natan", the longest line in the school; gets away with murder under any conditions of temperature and pressure. The "Nocturnal Wonder" claims he just has time to change clothes for the 8:30 class, but we know he gets twelve hours' sleep a night.







HERBERT M. SHELLENBARGER, Age, 26. Machine Construction
HARTVILLE, OH10 Hartville High School

Musical Clubs (1, 2); Tech Mechanics' Club (1, 2, 3).

"Shelley", with the white hair and sunny smile. He carries them with him all the while. He's seldom gloomy, and never sad. Says life's two short to be feeling bad. A member of the crew on the "Constantine".

KUANG MI SHEN, Age. 24.

Metallurgical Engineering Tsing Hua

PERING, CHINA

Metallurgy and Mining Society (2, 3, 4): Cosmopolitan Club (2, 3, 4): Secretary Dormitory No. 6 (4).

Kuang Mi (Nee How) was one of our most readily Americanized visitors from the Orient. His specialty was directing Chinese Glee Clubs, but he was a great lover of American music as well.

DAVE B. SHILLIDAY, AGE. 24.
PITTSBURGH, PA.

Commercial Engineering Peabody High School

3. Class Football (3); Class Basketball (3); Class Baseball (3); Quakers (3, 4); Commercial Club (2, 2, 4); Tech Flying Club (4); Vice-President Quakers (4); Wobblers (3, 4); Fulerum Club (4).

Dave is one of the twin six, and the eternal question is, "Who are you. John or Dave?" Look for the mole. He is one of the original Commercials and a real highflyer. It is said that high-top shoes save socks.

LOUIS H. SIEGLER, Age, 22. New York, N. Y. Mechanical Engineering Curtis High School

ФЕП: С. М. Е. S. (2, 3, 4).

Louis, hailing from Little Old New York, is always ready with a smile. He is a diligent student and one who has ever been loyal to his class. He's as sure as the seasons. "Sig" is liked by every one of his classmates.











CYRUS EDGAR SILLING, Age. 20.

Architecture

CHARLESTON, W. VA.

Charleston High School

I $\Sigma \Delta$; T $\Sigma \Delta$; T. A. C. (2, 3, 4); Student Activities Board (3, 4).

"Cy", the boy wonder—Ellington is his satellite and Horny is his god. It must be awful to be endowed with such talent. "Hot dog—Teek it off". As a massier, he is always willing to answer all sorts of questions. Cy must be true to the Charleston belle or belles, for he has never been known to "step out" to any shindigs in Pittsburgh.

FABIAN R. STALEY, Age, 23.

Chemical Engineering Peabody High School

PITTSBURGH, PA.

"Fabe", junior member of the Natan-Fabian firm. Manufacturers of Economic Extracts, etc., specializing in Embalming Fluid. Since he met "Jake" he hasn't been the same boy. The K. O. wonder of re-exams.

JULIAN PRICE STAPLES, Age, 26. RICHMOND, VA. Mechanical Engineering John Marshall High School

O E: Mustic Seven.

"How much money is there in it?" In launching this laconic enlogy, it would be entirely fitting to relate that to his intimate friends this Southern gentleman is known as "Pop". That, indeed, is a genuine character study of "Stapes". His quiet, reserved exterior is but the true covering for the tranquil composure, the firm confidence, the sterling sincerity of the man underneath. A good man has left school.

CHARLES STARK, Age. 22.

Chemical Engineering

DENVER, COLO.

East Denver High School

Φ E II; Section Football (1, 2); Chemists' Club (2, 3, 4).

"Chops", chief massager of Carnegie Union. The Denver "Post" has been on the bum since he left. As the baby of the family, he has the family reputation to live up to. His grades show how smart he really is—or do they?





THE THISTLE YEVEY

E. S. STOCKSLAGER, AGE, 22. Chemical Engineering
PITTSBURGH, PA. Steel High School, Davton, Ohio

Tennis (3, 4). Captain (4); Chemists' Club (2, 3, 4). Treasurer (4); Section Leader (4).

"Steve"—nobody knows what the "E" stands for, surely not "Early". Captain of the Tennis Team, and for that reason expects to play. Stock-holder in the Rittenhouse and Hotel Yoder. Spends a lot of time around Design. His line—"When I was in the Navy", etc.

CONRAD AUGUST STONE, Age, 23.

Physics

McKeesport, Pa. McKeesport High School

T B II; Class Vice-President (2); Student Activities Board (3, 4); Student Council (4); President C. G. S. Club (3, 4).

Stone does not allow his school activities to distract his attention from McKeesport. His affinity for the home town is very marked. He is an industrious. business-like individual, whose merits are recognized by all. Good work in the past assures his future success in the science of Physics.

GRANT CECIL STONE. AGE. 23.

HAMILTON, ONTARIO

Metallurgical Engineering
Hamilton Collegiate Institute

N; Lawtochfrarie; Delta Skull; Dragon; Baseball (1): Track, Penn Relays (3); Fraternity Basketball (3, 4); Sophomore Banquet Committee; Senate Vice-President (3); Senate President (4): Junior Prom Committee (3): Metallurgical and Mining Society (3, 4); American Institute of Mining and Metallurgical Engineers (4); Four School Council (4); American Association of Engineers (4).

He's a good fellow, and probably one of the most popular men in the school. Always ready to do his share in all of the school activities: a champion walker, who sticks close to Doc. Fettke on hikes. He hails from Canada, but claims that Chemistry is a product of the United States.

ALBERT NELSON STRATMOEN, AGE. 27. Metallurgical Engineering BOYD, MINN. State High School, Dawson, Minn.

President Metallurgical and Mining Society (3); Treasurer American Association of Engineers (4).

"Stratty", the metallurgist with the linonite shirt, came to Tech after a wide experience in the chemical and metallurgical field. Being an irregular, he took mostly Commercial Engineering subjects in his last year in order that he might have loads of time for fussing. He used the time to good advantage.









JOHN F. SWEENY, Jr., Age, 25. Pittsburgh, Pa. Mechanical Engineering Shady Side Academy

Σ N; Delta Skull; Dragon: Truck Squad (1, 2, 3); Mech. Football Teom; Musical Clubs. Secretary (1), President (3, 4); "Thistle" (3); C. M. E. S. Interfraternity Council; Mystic Seven.

Meet our friend "Mike" Sweeny, called "Mike" because it goes well with Sweeny. Boy, but he ought to know a lot! he's been around here for eight years. No sooner graduates from one school than he enters another. It is rumored that he was head nurse to the Musical Club when it was in its infancy, and they say he gives mandolin lessons to Mr. Scalzo. He also draws fluent cartoons left-handishly, and can sing bass to "Amici" and "Dear Old Tech".

JOHN WALTER TOWNS, Age, 24. Keene, N. H.

Civil Engineering Keene High School

Σ Υ; T B II; ('rid Baschall (2); Civil Baschethall (4); New England Club (1, 2, 3, 4), President (3); Musical Clubs (2); C. E. S. (2, 3, 4), Viee-President (3); Section Leader (4); Choral Club (1, 2).

Here we see a boy who could not fail on exams if he wished to. Study! Unheard of! We feel very highly complimented to have "Johnny" cast his lot with us after turning down every senior class since 1916. He is a good fellow, has worked hard and deserves a great deal of credit.

RICHARD EATON TOWNSEND, Age. 22. Machine Construction Buffalo, N. Y. Buffalo Technical High School

A A N; A T; New York State Club (1); Buffalo Club (1, 2, 3); Cosmopolitun Club (1, 3); Band (3); "Puppet" Staff (2, 3); Gobs Society (4); Dormitory Association (1, 3); Editor-in-Chief 1920 "Thistle".

After running the excursion down to the W & J game. "Dick" took the school up and paraded it in Buffalo on the way to the Cornell game. As a member of the Band in '19, he was champion intercollegiate cymbal player of the U.S.

PHILLIP C. A. VETTER, Age, 22. Civil Engineering
McKeesport, PA. McKeesport High School

 Σ A E; T B H; C, E, Basketball (2, 3, 4); C, E, Football (2, 3); C, E, Society (2, 3, 4).

What we want to know is how "Phil" ever got his "descript" done in his Soph Year, for we know darn' well that he never took his drawing board with him to the movies. Perhaps after being inspired by Theda Bara in six reels. "descript" comes easy! It does seem that way, but then Phil has a rep for being able to get his work quickly.







W. A. WALDER, Age, 21. Cleveland, Ohio Chemical Engineering Central High School

A Π; A, A, E, (4); Ohio Club (4); Chemists' Club (4); Glee Club (4).

"Willie", a rosy-cheeked roly-poly, who dropped in on us from Case. When he left he took the "schmier" out of "Schmier-case". Quite some air-swatting puglilst—ask "Mike" Russel. Takes baths in Machinery Hall "Pool".

SAMUEL WEIS, Age, 23.

Commercial Engineering Carnegie High School

Carnegie High School

• E. II: Plebe Bosketball Squad (1); Interfraternity Basketball (2, 3):
Fulcrum Club (2); Commercial Club (3, 3); Quaker (4).

"Sam"; his name was too big for a little fellow, so he changed Weishaskey to Weis. A regular patron at the Hotel Yoder. One of those Lefax artists.

LOUIS EDWARD WELCH, Age. 25.

Metallurgical Engineer

JACKSON, MICH.

St. Mary's High School
Z A E: Class Treasurer (3): Glee Club (3, 4): Metallurgist and Miners
Society (3, 4): Necuman Club (2, 3, 4), President (3): American Association of
Engineers (4).

"Lomi" was champion sleeper of the class until Scabright came into the competition. Probably if he frequented West Park less than seven times a week, he could stay awake. Nevertheless, "Lomi" is the Boy Chemist and Geologist of the Metallurgists.

EDWARD WENDELS, Jr., Age, 24. Brooklyn, N. Y. Machine Construction Bushwick High School

Band (2, 3); Dirty Dozen (1); Federal Board Student; Dormitory Association (1, 2, 3).

"Cocky" is reported to have a weak heart, but he can "natural" eight times straight without winking an eye. After graduating, he will go back to his old job of waking up the Statue of Liberty every morning.













LLOYD F. WENINGER, Age, Sandusky, Ohio Decoration

Sandusky High School

Delta Skull; Glee Club (2, 3).

Absolutely the only Design student not interested in the female of the species. His system of filing and tabulation is the envy of the department. Illustrator, decorator, musical composer and director, scene painter, chronicler of Mars—his talents are so many and varied we wonder just what will become of him; but we are positive that whatever he does, will be done thoroughly and with "the fire".

GEORGE M. WHISLER, Age, 25.

Electrical Engineering

SMITHFIELD, W. VA. Wilmington High School, Wilmington, Del. A. I. E. E. (3, 4).

George is another future streetcar motorman. A little Pittsburgh girl has so completely captured his heart that he is oblivious to the charms of all other girls. It is said that he crosses Dawson Street much more often than necessary. Favorite expression: "If we finish this experiment, we'll be late for the movies".

RALPH THEODORE WHITNEY, AGE, 23. Machine Construction Greigsville, N. Y. Greigsville High School

ΑТ.

Fair laughs this man, captain of his hopes; doesn't care what happens, things will all come right in the end. After graduation, he is going back to Greigsville, and tell the boys about the city.

HAROLD A. WIELAND, Age, 24. DULUTH, MINN.

Arehiteeture

Duluth Central High School

T Γ Φ: Tech Architectural Club.

A quiet young fella' from Duluth, who came bent on absorbing only Architecture, but it has been rumored that he has been seeking out the fair sex. But, be careful, "Dutel", it's difficult to mix the two.





ELMER LEWIS WYCOFF, Age. 22.

Mechanical Engineering Aliquippa High School

ALIQUIPPA, PA.
C. M. E. S. (2, 3, 4).

The Mechanicals are honored by having another commuter in their midst. A common remark: "Hey, 'Griff', hadn't we better go if we want to catch that train?"

MATTHEW FERDINAND YELLE, Age. 23. Mechanical Engineering
FitchBurg, Mass. Fitchburg High School

Θ Ξ; Dragon; Delta Skull; Manager Basketball (4); First Assistant Baseball Manager (3); C. M. E. S. (2, 4); Mech. Football Team (2); Mystic Scren.

Mat has a grand "Idear" that he will take a P. G. course at Indiana Normal or Jeannette High School—Grape Nuts! there's a reason. He can be certain that he will not get neuralgia from studying too hard, and can probably fall asleep in class with safety.

HAROLD E. YOUNGK, Age. 24.

Architecture

WILKINSBURG, PA.

Wilkinsburg High School

Tech Architectural Club; Glee Club (3).

Sometimes he smokes a stogie, but he looks more natural with a corncob. One of those young men who entered in 1914, but took time out to "travel in France". Now since he has become convinced of the fallacy of Art, he has become an "Option Hound".

HERBERT SPENCER YERGEY, Age, 23. Building Construction
POTTSTOWN, PA. Pottstown High School

Opheleum; Building Caustruction Club Secretary (1), Vice-President (2); Cheer Leader, 1918, 1919, 1920.

All ready, boys! A Looo-Cooo-Mooo-Tive!! Let's Go!!! Our cheer-leader "Hubby" was there rain or snow. Tech will sure miss him (the girls, too). One, two, three years against Pitt, he showed up true blue.







THE THISTLE XXXXX



SAMUEL B. SHEARER, Age, 24.

Heating and Ventiloting

Zanesville, Ohio

Opheleum; Buckeye Club Treasurcr (3); Carnegie Tech Musonic Club; B. T. U. Club President (3); Building Construction Club.

Sam Ambition Shearer came to Tech with the Class of 1917, and was greeted by the denizens of Second Floor East, and started on the right track. He continued on the right path as is shown by his graduating with Class of '20 with a creditable record. However, Sam did not let B. T. U.'s interfere with pleasure, as his smiling face graced many Tech affairs. Best of luck to our future world's-famed heating and ventilating engineer.

HERMAN GOLDBERG, Age. 24.

Electrical Engineering
Erasmus Hall

Brooklyn, N. Y.

Φ E Π: Track (3): A. I. E. E. (2, 3, 4),

Originally from New York, but more recently from France. He is well versed on all phases of the French language. His translation of "Cognac" is "a soft, smooth drink".

S. J. ROCKWELL, Age, 25.

Architecture

Uniontown, Pa. $\Xi \Sigma \Upsilon$; T. A. C.

Uniontown High School

"Rock's" quiet and modest disposition has evidently proven impregnable to the vanities of Paris and the Kaiser's cohorts, for his "early to bed and early to rise" is as yet uninterrupted, as he is the first in the drafting room each morn.

ODIN F. HENRICKSEN, Age, 20.

Machine Construction

SAN JUAN, PORTO RICO Commerce High School, New York City

Tech Mechanics' Club (2, 3); Cosmopolitan Club (3).

"Swede" from Porto Rico is the only real foreigner in the class. He says Havana is the greatest city in the world; what the attraction is we cannot guess. Noted for his lengthy discourses on "the Spanish type of beauty".





THE THISTLE

ANDREW L. RENNER, Jr., Age, 24.

Erie, Pa.

Machine Construction
Pittsburgh Academy

Band (1, 2); Design Orchestra (1); Cosmopolitan Club (2, 3); Tech Mechanics' Club (2, 3).

"Andy" is a real Tech man, and deserves all the credit in the world for completing his education under many difficulties. He thinks North East is the greatest place in the State, and his heart is there instead of in his work.

JOHN CARTER ROBINSON, Age. 25. Industrial Education
PITTSBURGE, PA. Fifth Avenue High School

A II A: Trock Team (4): Teachers' Club (1): Teachers' Course (2, 3, 4). "Robbie" is credited with being the first negro officer in Field Artillery.

"Robbie" is credited with being the first negro officer in Field Artillery. He is the greatest little organizer in school. Steady always, yet full of fun. Taking basketball teams away from home is his hobby. He'll promote anything.

RALPH P. WOODWARD, Age, 22. Youngstown, Ohio Building Construction South High School

Opheleum; Track Squad (1, 2, 3, 4); Plebe Basketball; Building Construction Club Secretary (2, 3); President Junior Class Division of Arts, 1918; Junior Prom Committee, 1918.

"Woody" is one of that Youngstown gang which was in power in 1916 and 1917. The temperament of Design School was too much for Ralph's constitution, so he switched. Generally can be found at Skibo or the Hotel Yoder.

J. J. HORST

Metallurgical Engineering









THE THISTLE XXXXXX

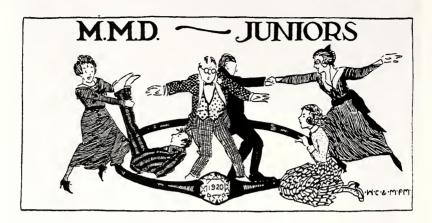


To the perfect.

AND HERETHER REPORTS SOUR GOES FORTH.
TO MEET THE INODED -PREPARED."



MARGARET MORRISON DIVISION



Junior Class History—M.M.D.

Three years ago we entered into the life at Margaret Morrison with a new spirit—that of being alive and awake every minute, ready to take our own part. We wore the hideous yellow arm band, the despised black stockings, we used only the left-hand stairway, we waited in a state of starved submission until twelve-fifty for our lunch, until Qualification Day when we banded together and helped make, as the upper-classmen called it, "the liveliest Qualification Day in the history of the school".

As Sophomores, we tried to keep this spirit of good sportsmanship and good feeling toward the Freshmen. At the same time we were teaching them their place in the school—how to stand aside for upper-classmen and to regard their arm bands as part of them, when all school work was brought to an abrunt standstill on account of the flu. Upon our return, we entertained our honorary class member. Dr. Julia Harrison, at tea, gave the Freshmen a dance, and finally gave the Soph Hop.

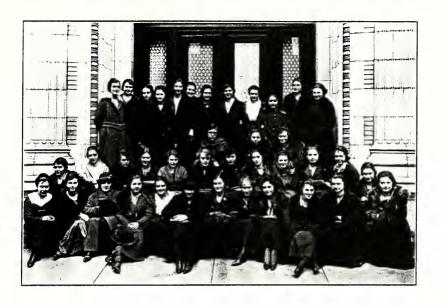
In the fall of 1919, we entered school as upper-classmen, our number slightly decreased, but still with the old spirit. The first thing we did was to give the Freshmen Class a tea in the faculty parlors to make them feel at home in their new school, and later we invited them to "a cabaret" in the gym. Of course, the big event of the year was the Prom, held March 5th, which certainly lived up to the good reputation all proms have.

Next year we shall be Seniors. Just think of it! As Freshmen we thought our chances of ever becoming Seniors were very slight, but upon our return to school in the fall, we shall have attained that exalted position at last!





THE THISTLE



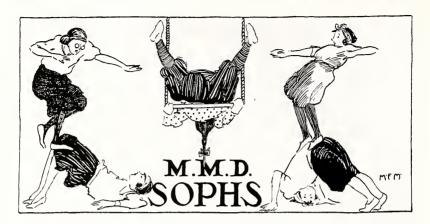
OFFICERS

ELEANOR McCarson Lois McCombs Mary Zarobsky Vivian Schmucker Louise Irwin President Vice-President Secretary Treasurer Social Chair





THE THISTLE YEYEY



Sophomore Class History—M.M.D.

The 1922 Class woke the Margaret Morrison Division with surprise. When we first came in as tender Freshmen we obeyed all the little rules—and never thought of anything unusual. But that didn't last long. We got the class spirit and gave a dance just for ourselves, to see who we really were. Then an exchange of dances followed. Our Plebe girls made a good showing at the boys' dances, too. Our spirit was good—we think even the Sophomores of 1921 would have admitted that. And how we could play games! This fall, we played volley ball and beat '21 by a large score. And the class? The biggest and finest ever. Yes, we are proud of us—we Sophomores.





THE THISTLE NOW WAY



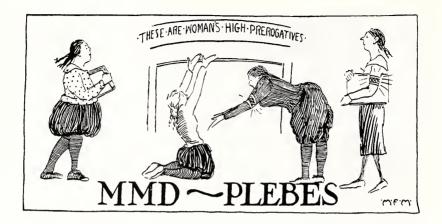
OFFICERS

Josephine Whitney		. President
MARY LITTLE .		Viee-President
GLADYS BOGUE .		. Secretary
Anne Dougherty		. Treasurer
Eleanor Foster .		Social Chair





THE THISTLE



Freshman Class History—M.M.D.

September 30, 1919, repeated the process of previous years and crowded the halls of Margaret Morrison with new faces and figures; not of much importance, these rather shy newcomers, merely Freshmen, but nevertheless the center of much attention, especially from Sophomores. After the first few heetic days, this attention subsided enough to let us draw an occasional quiet breath and become acquainted with our surroundings and our classmates. When the Sophomore-Plebe Dance "came off", we discovered that even Sophomores have their good side, and the Junior Party left us with a general feeling of good will for everyone.

In November, we organized and began to plan our reciprocal events. Organized, we felt stronger and fully able to take care of ourselves, although the atmosphere was still dangerous unless Plebe bands and cotton stockings were blatantly evident.

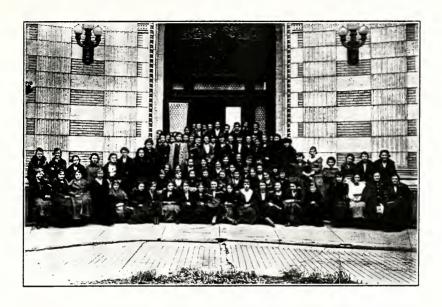
As we look toward the end of the year, while we can conceive of many things far worse than being a Freshman, still we thank whatever gods there be that all things, even Plebe Regulation, have their ending, and that some day we may enjoy the glorious privilege of being hungry before ten minutes of one.







THE THISTLE YEAR



OFFICERS

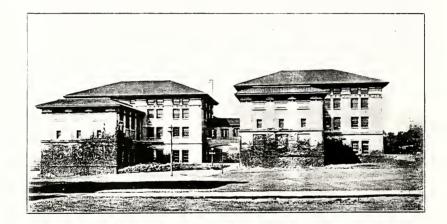
KATHERINE McDonald LILLIAN COLEMAN LOIS MILLER JEANETTE BICKEL ELEANOR SHOMBERG President
Vice-President
Secretary
Treasurer
Social Chair







THE THISTLE XXXXXX

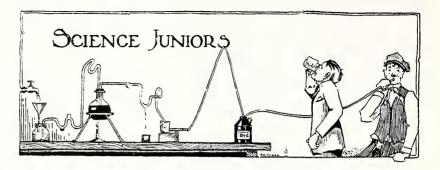






SCIENCE

THE THISTLE YEAVEN



Junior Class History—Science

The Class of '21 came in with a bang and has been banging ever since. Its members were properly hazed and they submitted to it properly, but always showed their spirit by a friendly "come back", which might have proved unwise had it not been for the fact that the Sophomore Class was weak in numbers. The worst punishment which they received, however, was that of being compelled to pay for "Major Lyle's Office" which was burned down "by mistake" during a Plebe parade.

The Plebe Banquet was a complete success. It was held at "The Pines", so far from Pittsburgh that the Sophomores could not get there. Even the Plebes had some difficulty in finding the place.

During the year, the class started military drill on its own initiative and was responsible for the agitation which resulted in the establishment of the R. O. T. C. unit which was so very popular among the faculty, the general public and other disinterested persons during the latter half of the year.

Many of the class went into the Service at the close of the year, and almost all of the remainder entered the S. A. T. C. in the fall of 1918. Having grown fat on the army diet of stew and more stew, the class returned to its Sophomore Year, still strong in numbers and in spirit. The first duty of the year, that of hazing the Plebes, was done with the gentle firmness characteristic of those who accept without question the old adage, "Spare the rod and spoil the child".

The Sophomore Banquet and Sophomore Hop were both managed without a slip, and even the Plebe Banquet was partially managed by the Sophomores. When things became dull during the second semester, the P. T. strike occurred and furnished several days of interesting discussion on the question of whether a cold rain is a shower.

Who's full of pep? Who's full of fun?
Who's got the rep of big things done?
It is the class
They can't surpass—
The loyal bunch of twenty-one;



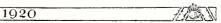




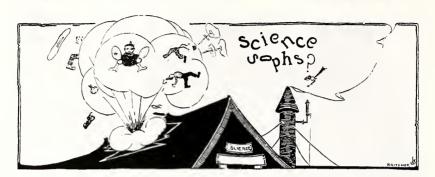
OFFICERS

F. S. Bloom President
C. B. Schmidt Vice-President
P. Irwin Secretary
H. G. Nichol Treasurer









Sophomore Class History—Science

We first entered Tech under the S. A. T. C. administration, but after three short months, we gave up tin soldiering and became known officially as the Plebe Class. Our real organization, however, came at the Plebe Banquet which was held in spite of Soph protestations. This banquet is still remembered as a great success.

As Plebes, we were hazed, worked, and flunked as all good classes do. We entered into activities, both class and school, and continued the Tech traditions. In addition, we enlivened the wearying life of a I lebe with a Clean-up Day and a strike. Qualification Day saw us added to the Carnegie Clan as the Class of 1922.

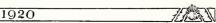
When we came back this year, we found that the places of those who had not survived the Plebe Year were taken by men of former classes, lately returned from overseas. They were welcomed, and they added to the class the Tech pep and spirit of former years. Witness this year's banquet. From fear of ending our social career we will not admit in print that we were there, but should any wish first-hand descriptions, they are referred to Professor Trinks.

The good work started at the banquet has been kept up, and we find our class inaugurating the idea of a Soph Hop for all schools. As each day passes, we realize more fully that our duties to school and class do not end with attending classes. Rumors have said that our motto is "Come, little Joe", and "Oh, Min!" but for publication it is always given, "Our Best for Tech".

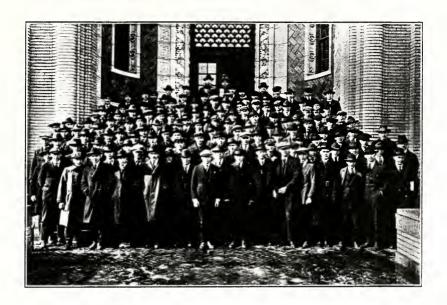
We feel that we are just entering on our years of greatest usefulness to Tech, and aside from the usual aspirations to remain in school and become Juniors some day, we all desire to see Tech on top, and to see our class become of greater value to Tech.

What the future has in store remains to be seen, but we are certain to be proud of having belonged to the Science Class of 1922.









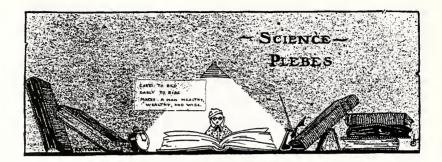
OFFICERS

G. W. Curtis				President
H. D. Skyrm			Vice	e-President
R. L. Stevenson				Secretary
H. H. WADE				Treasurer





THE THISTLE YEYEY



Freshman Class History—Science

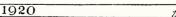
The campus of Tech, the first few days of October, 1919, was the scene of unusual and varied events. Large groups of woebegone individuals with coats on backwards and inside-out, wearing queer little caps, and trouser legs pulled up to display a black sock, were being marched over the campus by another group who all had paddles that were freely used. No, this was not a circus parade, merely the new Plebe Class, the hope of the school, being heartily welcomed at the portals of learning by their big-brotherly-acting Sophomores.

Early in the school year, a successful Plebe Smoker was held in the Gym. This was the first social get-together meeting of the class. After the first quarter exams, a dance was held in the Union, but the crowning event, the climax of the year, was the Plebe Banquet. It was a most wonderful affair. It is unfortunate that so many of the class had to leave us at the end of the first quarter. It seems to be a well-established custom here at Tech. Those of us who are left will carry-on, and prove our right to call ourselves Tech men.

OFFICERS

G. F. CRAIGHEAD.		. President
W. M. Cummins .		Vice-President
Chester A. Emery		. Secretary
WILLARD H ROBERTS		Treasurer







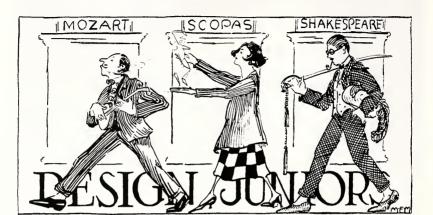
THE THISTLE XXXXXX











Junior Class History—Arts

The gang, called the Class of 1921, began its noble and epoch career in September between 1915 and 1917. It doesn't make much difference which date is taken, the Juniors of the Class of 1921, Division of the Arts, have been the life of the school, encouraging the ole' time pep that was at one time so much in evidence. Who are we? Walk through the hall in front of the Dean's office at the lunch period—and see for yourself, but this happens to be our reconstruction period. Oh, but then one needn't stop with the class as far as Re's are concerned, ask any of them, they know.

Some of these raw-boned Juniors by the hand of fate, were members of the sect called Sophomorism, when some of us were meek and weak-kneed Plebes. Did we take our baths in the drafting room sink and submit to the flourishing tonsorial artist? Boy, can a fish swim? A fish cannot do anything else and get away with it, and neither could we. Nevertheless, we are still with you. Wilhelm has gotten his and we are indeed joyous to promenade the campus once again, Amen! This class, broken up as it has been, started off last fall with such a rush that it took the Design School by storm and swept it off its feet. Yea, verily, the marble seats in the main corridor are being slowly worn away. Last fall, the Juniors who have the privilege, as 'twere by virtue of being here two consecutive years, of greeting the old associates were much surprised by the wholesale return of Juniors of former years. Result—a combination of (censored) that during charette, one's hair simply refused to stay put in its much petted and coaxed part, but must stand on end. Ole' Dad himself says that the Wild West and its flock of Indians has loosed its mighty bonds.

Two or three stunts are in their infancy of planning, but the Juniors of the Immortal Class of 1921 are not going to be forgotten in a short time. One of these, according to the scriptures, the Prom. the Biggest of these events, will outclass in splendor and enthusiasm all previous Proms. For the remainder of the year, just watch our smoke! When you read this book, you will see that the graduating class of next year will be one that Tech can be duly proud to call her own.

ZEET.





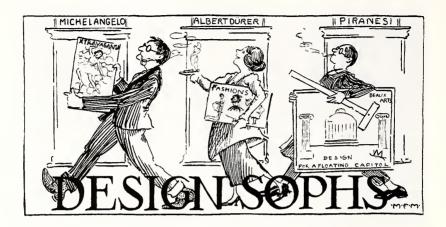
OFFICERS

H. T. Aspinwall President
J. G. Todd Vice-President
Ellen Crowe Secretary
B. H. Dierks Treasurer
T. R. Hinkley Historian





THE THISTLE XXXXXX



Sophomore Class History—Arts

We entered school when the Kaiser's armies were retreating from Paris for "strategic reasons". No, we were not typical Plebes; we were real Arts School students, for we were "different", from the start.

In proof of it we "sunk" several Seniors and all the Sophomores unlucky enough to be present. We were also the first Plebes to wear our caps "overseas style".

But in the meantime, our school work was not neglected. In a year of two quarters we succeeded in doing a full year's work; and only a few "fell by the wayside".

Mysterious Night and Fete Fantastique inoculated us with the real Arts School Bohemian spirit, and so we were ready to ascend to a higher plane.

As Sophomores, we were reinforced by many returned overseas men, which made us strong enough to bring our "mailed fists" down with a thump on a large class of Plebes; so that they cringe at the mere sight of us.

Near the close of the first quarter, we gave a dance and invited all the classes and members of the faculty to attend. The dance, music, and the kick in the liquid refreshments were voted a success by all the guests.

Our history so far proves that we possess that element so necessary to true Techites; an element that is bound to carry us far, in a word, we possess pep.





THE THISTLE XXXXX



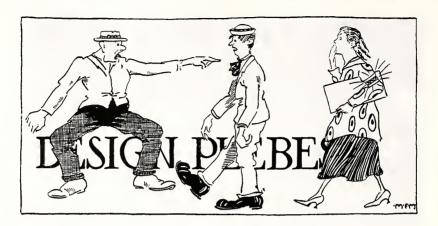
OFFICERS

EVERETT HUGHES .				President
Albert A. Schoeff			Γie	e-President
Morton Winslow				Secretary
AUDDEN W CHESTERN	115			Treasurer





THE THISTLE XXXXX



Freshman Class History—Arts

Oh, boy! Remember when we first heard our footsteps clatterin' through those marble halls, an' how small an' useless we felt? An' the pained expression on the upper-classmen's faces when they looked us over, an' how scared we were? An' then when we had that "glad-to-know-you" dance, where we got acquainted with each other an' all the upper-classmen? An' what a good time we had at the Dean's party when we were expectin' to feel like California people in New York. An' how each class pulled off a stunt at the party? An' the way we worked in secret to get our stunt ready? An' when we pulled it, 'member how we nearly knocked the bunch cold an' made 'em think for a minute we weren' tas dumb as we looked?

An' member, folks, how we worked for weeks an' weeks on the extravaganza? An' how the whole darn' class was in the theatrical business? An' while we were workin' on the show, member how the upper-classmen nearly died of anxiety, waitin' for us to throw 'em a dance? An' how they wouldn't believe we were busy? An' how wrong they were? An' then, folks, 'member when the big show was over and we had a chance to breathe again? An' how, just when the upper-classmen were thinking we were dead from the neck up, we sneaked up on 'em an' gave them a real dance?

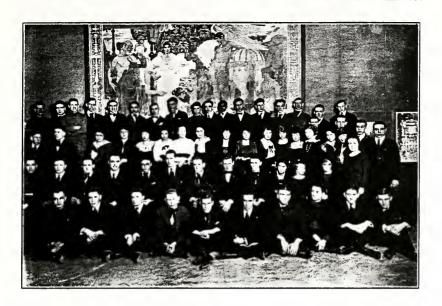
An', gosh! 'member the time when the U. C. M. (upper-classmen) waited 'til we had forgotten all about Plebe Regulations? An' then how they lined up an' inspected us an' romped all over us? An' member the pig-tails and braids on the girls? An' the blushes on their cheeks? An', oh, boy! 'member the unprivate individual bathin' parties on the beach by the sink in the Architects' room? An' how every once in a while one of us fellers got invited to one of 'em? An' how each niche in the corridor held a hunk o' sufferin' humanity who forgot about the regulations?

REMEMBER ALL THIS? THEM WAS THE HAPPY DAYS!!!
(With apologies to "Casey"—)





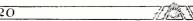
THE THISTLE



OFFICERS

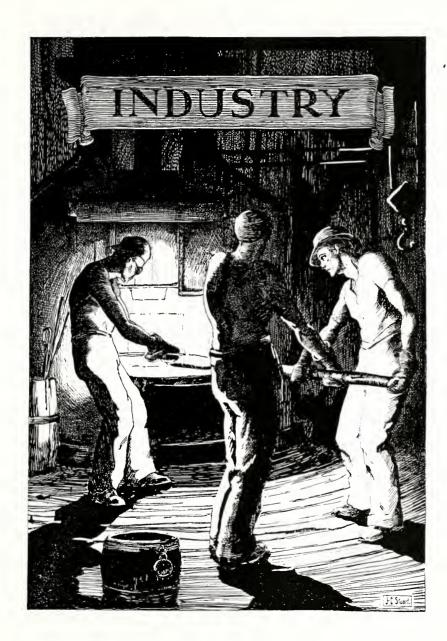
J. A. WILLARD	Presiden
Ross Hartz	Vice-Presiden
Miss Cunningham	. Secretary
J. R. Franklin	. Treasure.





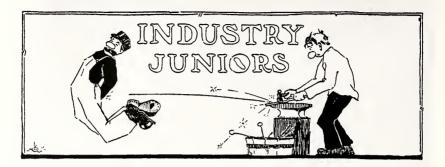
THE THISTLE YEAR





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THE THISTLE



Junior Class History-Industries

After gazing longingly for a period of two years and at the same time striving and pushing ahead with a certain determination of earnestness, we finally reached the lower strata, as it were, of upper-classmenship. Realizing our dignity, we learned to look on others in a different light, and readily saw that we were not a faction striving for self gain, but instead, formed only a part of a larger machine. So throughout the year instead of using our surplus energy for class distinction and class glory, we began to turn this material over to Dear Old Tech.

Upon completing the custom of setting the incoming Freshmen firmly upon their feet and getting them organized and established, we ourselves started right in, by assuming our share of duties and responsibilities about the campus. We contributed our share of material to all athletics and other activities about school.

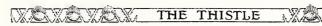
Basketball, track and baseball occupied the attention of men, and those who two years ago formed the squad on the bench (the scrubs), now took the place of the regulars who were lost by graduation.

From the delights of home and our summer jobs. October days once more called our attention; and with the most virtuous resolutions for the coming term we packed up and prepared for mobilization in the Union where the favorite song was "Give me your name, twenty-five dollars and here is your green slip; pass on and I will see you later". The harrowing memories of the night before the fatal day, and the five minutes before the train pulled out are still with us; yet it was good to see Tom. Dick, and Harry again and to swap experiences with such additions and modifications as the occasion seemed to warrant.

As for ourselves, we have spent two quiet, sober and industrious years. Our dignity and peace have been unimpaired at Tech, surrounded by our beloved books, kind, generous professors, the delights of the Maggie Murphs, the wonderful beauties with which Nature has endowed this part of North America, and letters from home and someone else, what more could the heart of man desire?











OFFICERS

H. C. Hammann President James J. Rudisill Vice-President W. D. HALL
P. D. GOOD . Treasurer . Secretary





THE THISTLE YEAVEN



Sophomore Class History-Industries

It was in the month of January, 1919, when the Class of 1922 made its appearance on Tech campus, every member with high hopes of victories in and out of school, but why dwell on a description of our entry into Tech life? It is sufficient to say, in things pertaining to Tech and her traditions, we were willing, and can say with some pride, able students.

Owing to the reconstruction period, we did not suffer so many indignities as did our predecessors, but our records as students and our interests in various activities bid fair to rival, if not equal and surpass the best that has gone before us.

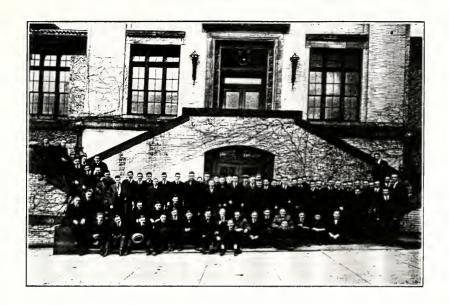
Now we are Sophomores—our importance on Registration Day knew no bounds; still this did not deter our ideas of being good sports toward our inferiors. After the traditional smoker in the Union, this spirit was increased, for good—for worse—but the numerous hair-cutting parties have drowned this poor spirit to some extent. They now know the purpose of Plebe caps. Regulations, and various other things which combine to make them better Tech men.

We believe we have kept alive Tech spirit, and our hope is that we may be able to further her best interests.





THE THISTLE YEYEN



OFFICERS

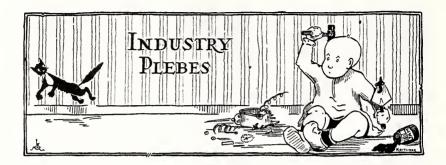
AUGUST W. KANN
JOHN E. CHICK
FELIX A. CROTHERS
HAROLD C. GODDEN

President Vice-President Secretary Treasurer









Freshman Class History—Industries

There were many changes this year in Industries that directly affected the Freshman Class. But in spite of these many changes, our friends the Sophs were in no way affected. They were just as tyrannical and harsh as ever before. Their first treat was to show us the sights which they deemed important for us to see. With our citizen uniforms re-designed, arranged in Indian-file formation, and using the Sing Sing lock-step, we started on our sight-seeing trip. Our first encounter was with the damsels of Forbes Hall. Sure enough, Cupid was right on the job. In less than five minutes, two of our brother Freshies were "hitched up". We next visited the Woolworth Store in East Liberty, letting the clerks know in a very audible manner just where we were from. Finally, we visited the Peabody High School, where we received a very (luke) warm reception.

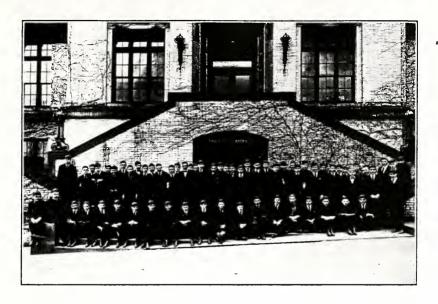
After this grand parading we were not at all reserved in calling the Sophs every name under the sun, but one day we heard the following announcement: "A smoker will be given next Saturday by the Sophomores in honor of the Freshmen". This made us take back everything we ever said against the Sophs. And say, did we eat, drink and smoke? I'll say we did! We could do nothing else but show our appreciation for this treat; consequently, we tendered an unrivaled dance in honor of the Sophomores, which we believe they will never forget.

As the year passed by, we suffered greatly, endured all boldly—but watch us next year.





THE THISTLE WAY AND WAY

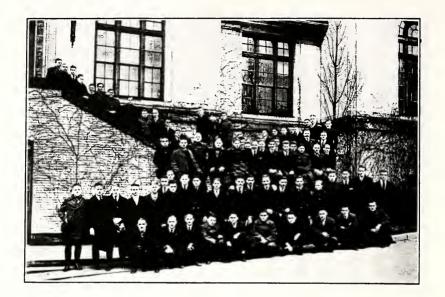


OFFICERS

S. P. SMITH			. Presiden
C. A. CARR .			Vice-Presiden
C. W. Bunting			. Secretary
J. B. Mays .			Treasure





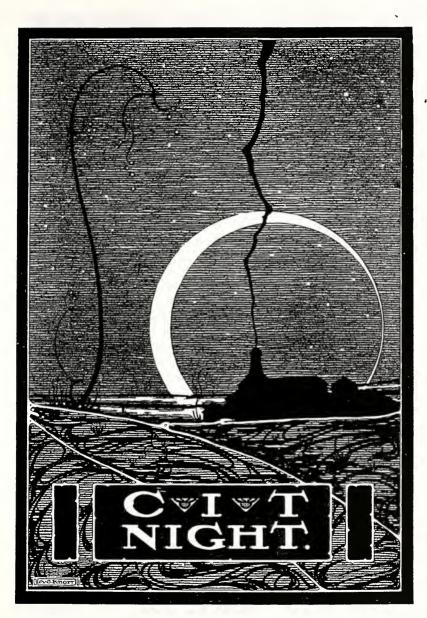


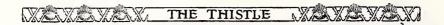
Federal Board Students

The United States Government has established at Tech a school for men disabled in the Service during the war with Germany. The men are privileged to choose the work in which they wish to specialize, and they receive the same instruction as the regular classes. In this way the government attempts to express its gratitude for the heroic services which these men gave to their country. Most of the government students are taking courses in the Division of Industries, but they also are well represented in the other divisions of the Institute. While they have no separate class organization, they most certainly deserve this recognition in the Year Book.









Senior Class History—Night

A long, hard journey draws to a close; we view the approach of the end with a feeling of elation, commingled with regret, for we realize that our paths will probably lie in diverse ways.

But a few of the three hundred who started six years ago are left, but the friendships of the few are such as are seldom formed. May they last forever.

To those who have fallen back, but are still on the road, we offer encouragement and a helping hand. For those who fell by the wayside from lack of will power, we grieve; may they mend their ways. With those who were compelled to quit by reason of health or other unavoidable causes, we sympathize; may their future be bright. With those who have left us at the call of commercial advancement, we rejoice; may success be theirs. And for those who have been called to the "great beyond", we mourn; may their virtues live forever.

We are about to lay aside our textbooks, and with the knowledge obtained at Tech, continue the great fray in which all night men are veterans. Whether or not the final outcome of this contest be affected by the technical knowledge acquired at school, our lives cannot help but be fuller, freer, broader and bigger, because of the experience gained and friendships formed.

To our beloved late Founder, and to the Board of Trustees, we wish to express our thanks for the opportunity offered us. And for the members of the Faculties who have shown such a wonderful interest in us, and willingness to help us, we have a gratitude which words fail to express.

MERLE ROBISON.







THE THISTLE YEVEY

OLEN E. BEE, Age, 29

Electrical Enginecriuy

PITTSBURGH, PA.

New Kensington High School

THISTLE Board (4); Class President (5).

How doth the busy "Bee?" Although a man of many letters (patent), he passes with only one for a name. This Dodge owning class president originally thrived in New Kensington, where he astonished the natives with his skill in athletics and checkers.

HARRY A. BELL, Age, 21

Mechanical Drafting

Pittsburgh, Pa.

"Bell" can certainly throw the mud in the foundry, and in physics lab he's a bear. If he is as popular in society as here at Tech, he is some he-vampire.

CHARLES H. COOK

Chemical Engineering

PITTSBURGH, PA.

Cook's specialty is somnambulism, sometimes carrying his practice into the classroom. Aside from this, Cook is known for his stick-to-it-tiveness and his propensity for cooking up wind-concections—ask Grobstein.

W. R. DICKSON

PITTSBURGE, PA.

Mechanical Drafting
Peabody High School

"Dick" works math all day and gets paid for it, but cannot see any sense in the theories advanced by Mr. King.







THE THISTLE XXXXX



JAMES E. DOBSON, Age, 24

Mechanical Engineering

MUNHALL, PA.

Student Activities Board (4.5); Class Secretary (5).

"Jim", always boosting the morale, and fighting for our rights. He is a living example of the kinetic theory of matter—that all particles are in motion. He has caused us to change our opinion of Homestead. The fellow who talks in a steady line by jerks.

FRED H. FANNING, Age, 27

Mechanical Engineering

PITTSBURGH, PA.

THISTLE Board (5).

This young man has the unique idea of applying the science of engineering to a plow. If he plugs as hard on the ultimate farm as he did in college, he is sure to have three crops a year.

VIVIAN P. GRIFFIN, Age. 28 Pittsburgh, Pa. Mechanical Engineering

"V. P." may stand for "volume and pressure" or for "very prosaic" and still apply to "Griff". Still waters run deep; great bodies move slowly; and you just barely see "Griff" move. Figure it out for yourself.

ALBERT GROBSTEIN, Age. 24 Pitt-burgh, PA. Metallurgical Engineering

That energetic mass you see bounding over the campus in the evenings is "Groby" on a still hunt for pie. Being a metallurgist, you would expect him to have an iron constitution, but not so—he falls the same as the rest.

1920

THE THISTLE



CHARLES F. HOULIHAN, Age. 36

Civil Engineering
Fifth Avenue High

Pittsburgh, Pa.

Class Treasurer (2): Vice-President of Civil Engineer's Society (5).

"Hooley" is distinguished as being the oldest man in the class, but if a man is only as old as he feels, "Charlie" should be wearing short trousers. He is closely affiliated with some of those Hawaiian medleys.

EPHRIAM KUFF, Age. 21 Baltimore, Mp. Electrical Engineering
Baltimore Polytechnic Institute

"Kuff" is really a "caller" when the fair sex are involved. This fellow with the toothbrush lip hails from Baltimore, and he expects to return to the land of the oyster, some day.

FREDERICK A. LIND, Age, 23 EAST MCKEESPORT, PA. Electrical Engineering

Class Vice-President (5).

"Fred" is another man of letters, being the youngest patent attorney with the Westinghouse Company. Ever since his office-boy days he has exhibited untiring perseverance, and now he has a law course scheduled to follow as a demi-tasse to his engineering work.

RALPH J. MILLS, AGE, 34

Chemistry

Braddock, Pa.

Braddock High School

Mills is one of our future steel magnates, and he is going to give the school a new gym, some day. "Ask me a question about armorplate".







THE THISTLE XXXXXX



AUGUST L. NELSON, AGE, 22 Erie. Pa. Structural Design Erie High School

August seems to like Tech. After he was graduated in the day school, he came back for more at night. He must collect sheepskins.

MERLE ROBISON. Age, 28

Electrical Engineering

PITTSBURGH, PA.

Class Vice-President (4); Historian (5).

"Robby", the blackbird of the class, is "sum burd". His two-watt meter method of measuring power will revolutionize the lab work. In this connection he is accused of being two-phased.

OCTAVE SCHNURER, AGE, 22

Mechanical Drafting

Paris, France

"Scooner" came all the way from France to go to Tech. He is popular with all, but we do wish he would dance Home Waltzes with his own girl—that is an American custom.

ALBERT D. SHEERE, Age, 25 Wilkinsburgh, Pa. Metallurgical Engineering Wilkinsburgh High School

"Oh, Sheeres, let's cut up!" This shining light of Wilkinsburgh is a favorite with the ladies. "Red" is the congenial sort always welcome anywhere anytime.





THE THISTLE XEYEX

LOUIS A. SOXMAN, AGE, 21 PITTSBURGH, PA. Structural Design

"Louie" isn't afraid of getting his hands dirty and is going to be a credit to Tech in a few years. He would get our buildings up on time if he had the contract.

WILLIAM ROY WICKERHAM, AGE, 27 Electrical Engineering
Monongahela, Pa. Monongahela High School

"Wick", otherwise known as "Sir Walter Raleigh", migrated here from Monongahela on a two-wheeled steed. Although he denies it, witnesses claim that he once scattered young ladies in football fashion that he might catch a car.









THE THISTLE YEAVEN





SCIENCE











SCHOOL OFFICERS-ARTS

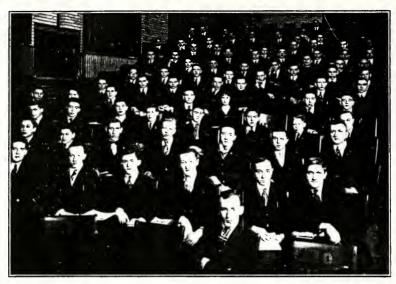


ARTS





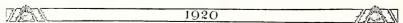
THE THISTLE YEAR



INDUSTRIES



INDUSTRIES



MPUS COMICS YOURSTLE AS YOU MAY LOOK TO OTHERS - SPIDER







THIS IS SHADEN HE FEELS SURE OF COURSE YOU'VE MET HERES THAT ROUGH BIRD - SAID HE TAU BETA PI MILL HAVE GREATER HERAYY ON YES HE'D SUST MOULD'NT OBEY PLEBE RULES, KID PRIESTAGE WHEN HE WEARS THE LOVE TO DLAY ON OUR. FOOT-STUFF TO HIM, USED TO WORK FOO KEY, WHAT DO YOU THINK, SHARN BALL TEAM BUT TRAINING. THE DOO CAME TO TEST TO LEARN WANTS TO ORGANIZE A STRONG SIMPLY BORES HIM. SURE! CIVIL ENGINEERING GRAPUATED CHESS TEAM AT TEGM TO THEY HE'S THE CHAMPION POOL IN ONE WEEK WITH A BLACK EY COLLEGES LIKE HANVAUD. — SHARN OF OANLAND. — AND A TECH HAIRCUT BY THE SOPIS

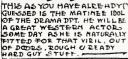






IBMT HE THE DIG STRONG MAN OH GIRLS! HERES GEORGE ISMT HE YOU KNOW CARDOL HE SINGS
THOUGH THE IS SUST SIMPLY THE HANDSOME BRUTE THOUGH? HE INTHE GLEE CLUB. ISMT HE FINE
WONDEARL WHEN HE PLAYS DELONGS TO ONE OF THOSE FRATS: I LOKING IN THE SOUP OF HISH
FOTDALL-AND DRAYE-WHY THINK HE TOLD ME IT WAS TAPPA - NU OUTFIT? HE GOT TERRIBLY—
HE DONT MIND GETTING HUTK KEG. HE'S AN ARCHITECT -SOMETIMES YES SUSTAMYFUL MAD WHEN
A DIT-BUT HE'S SO BASHFUL HE HAS TO-STUDY ALL NIGHT SO HE ONE OF THE FELLOWS TOLD
WHY HE WONT EYEN A COES TO LOTS OF DANCTS TO GET
HIM HE LOCKED SO SWELLHE
ONE OF THE COEDS.—— USED TO THE LATE HOURS.—
OUGHT TO BUT THE THING



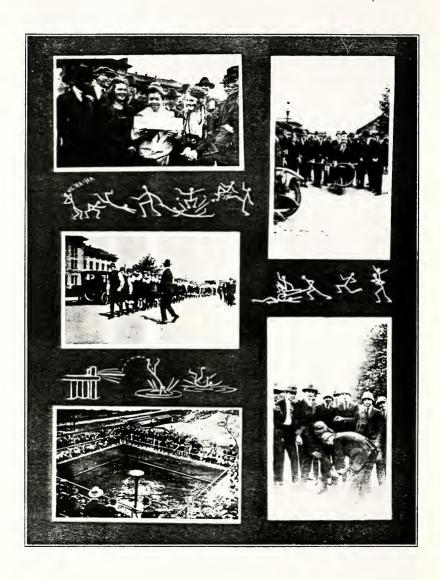




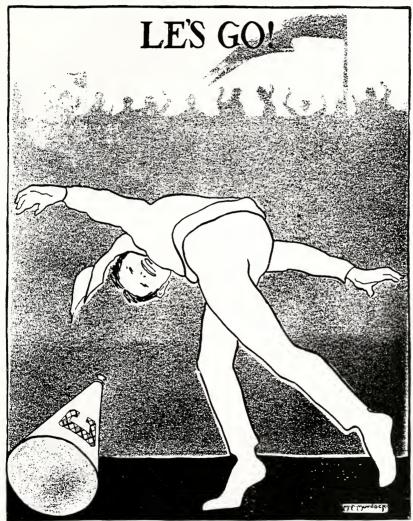
THIS AS YOU HAVE ALREADY (") ON THERES THAT HORRID FRESH SUST LOOK AT DAYMOND! YOU ON THERE'S THAT HORRID FRE'SH BUST LOOK ATDAYMOND! YOU FILTET FROM THE PSYCHOLOGY KNOW HE'S SUST TOO FUNNY FOR DPT. HE COME'S SHOODING AROUND ANYTHING. HOW ON EARTH CAN EYEDY DAY, A TEPEIBLE ROCE WE HE THINK OF ALL THOSE FUNNY THINK, THE'S SAY HAMMY THINKS, SOKES ABOUT THE BEAKEDY, HE'S CLEYER, HE MUST BE FOR HE MUST BE A BORN HUMORIST HE'S GOT THE WHOLE SCHOOL WIN HEEYEN LAUGHS WHEN HE BUFFALOED WITH HIS LINE .-



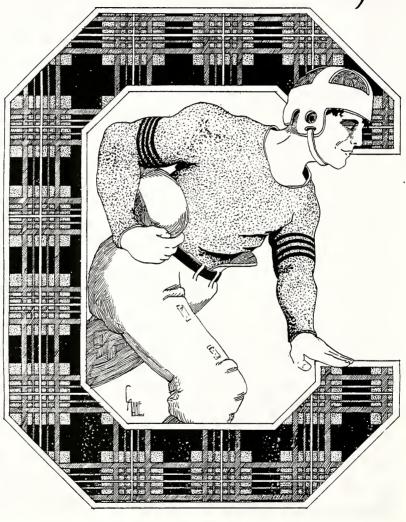
- FLUNKS IT'L SOON BE HYSTERICS,



ATHLETICS



Wearers of the





Wearers of the "C"

FOOTBALL 1919

Phillip P. Marshall, Captain, '20
Harold C. Godden, Captain-Elect, '22
Thomas J. Loomis, '23
J. S. Baldwin, '20
A. E. Fletcher, '23
H. G. Wittmer, '23
S. Williams, '21
Milton S. Roth, '22
Alfred Irwin, '23
Harold J. McClean, '23
D. J. Moon, '23
Abe Levy, '21
Roger Marshall, '23
E. G. Hayes, '23
Williard Roberts, '23
Homer F. Carey, '20
H. C. Henderson, '21
E. G. Flannery, '23
George W. Curtis, '22

TRACK 1919

CLARENCE B. SCHMIDT, Captain, '21 C. KENNETH LITTLE, Manager, '20 P. SACKS, '19 GEORGE ELLERTON, JR., '19 E. J. DAYIDSON, JR., '19 M. S. GARE, '21 H. PETRY, '22 M. L. SMITH, '21 J. J. JUERGENS, '19 R. M. RUSSELL, '21 F. A. FAVILLE, '19 H. A. MILLER, '21 E. M. STULTZ, '22 H. C. HAMMANN, '21

TENNIS 1919

JOHN D. BEATTY, Captain, '20 FRANCIS J. NUTTALL, Manager, '19 E. S. STOCKSLAGER, ('aptain-Elect, '20 J. C. HARKNESS, '21 C. J. COPLEY, '22 D. B. GAWTHROP, '20

BASEBALL 1919

M. Edward Gretzler, Captain, '19 John R. Gaugler, Manager, '19 Holmes W. Lynn, Captain-Elect, '21 David H. Abrams, '20 James A. Gates, '19 Raymond J. Gannon, '19 Charles O. Hoban, '19 Elmer F. Weiss, '22 Harold C. Godden, '22 Edward S. Lyndell, '20

CROSS COUNTRY 1919

Marshall Stearns Gare, Captain, '21 Harvey R. Hiller, '21 Thomas McDonald, '23 W. M. Cavett, '23 N. H. Greenlaw, '23 Donald W. DuVall, '21 C. D. Miller, '23 W. L. Wilson, '22







The Athletic Board of Control

Dr. Wm. L. Marks .							Genera	l Supervisar
Dean A. W. Tarbell						4dmir	nistration	n Supervisor
		o	FFIC	ERS				
H. C. Hammann								President
R. W. Schmertz								Secretary
C R SCHMIDT								Treasurer

UNDERGRADUATE MEMBER

C. A. McDade

ALUMNI MEMBERS

E. T. MERRILL

H. Zehfuss

The Athletic Board of Control supervises the entire athletic program and policy of the school. It is composed of one representative of each day school, one representative from each Alumni Association, the Graduate Manager, Supervisor and Treasurer.

Each member is elected by his body and serves for two years. The under-classmen must be Juniors.

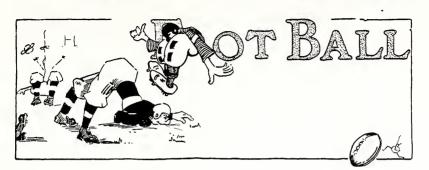


"Doc" Marks, General Supervisor of Athletics, is one of the most popular Faculty members. His duties as Resident Physician bring him in contact with many men; and as head of the Athletic Board of Control, he has wrought changes in policy which insure strong representative teams.





THE THISTLE YEVEY



SUMMARY

$\mathbf{D_{ATE}}$	Opponents	Тесн	OPPONENTS	Place
Oct. 4	Bethany	33	0	At Home
Oct. 11	W. & J.	0	20	Washington, Pa.
Oct. 18	Case	16	0	At Home
Oct. 25	Lehigh	0	16	At Home
Nov. 1	Allegheny	9	0	At Home
Nov. 8	Cornell	0	20	Ithaca, N. Y.
Nov. 22	Pitt	7	17	Forbes Field
		_	_	
		65	79	









Football 1919

THE prospects for the best season ever were very bright when on September 15th over thirty-five huskies reported at Camp Louise Carnegie for preliminary training. Coach "Wally" Steffen, ably assisted by Coach "Bill" Hazel and our 1916 star full back, "Salt" Altdoerfer, whipped the squad into shape and brought back to Pittsburgh a strong and determined group of men.

"Cap" Dosey of the Division of Industries had charge of the camp, and "Burt" Munhall relieved the boys of their aches and pains. It was a very successful training period, and gave the squad a good impetus. The veterans turned out to be: Marshall, Williams, Carey, Bloom, Brunwasser, and Bolinger. Added to this group, came some men with a football reputation behind them, such as: Loomis, Moon, Fletcher, Baldwin, and Hayes. With these men, Steffen was able to get fighting spirit into the squad.

The team came back and defeated Bethany in good fashion. A difficult schedule was ahead of the men and Steffen drilled them hard. The four toughest games were against W. & J., Cornell, Lehigh, and Pitt. In every one of these games the men put up a wonderful scrap, and showed the true Carnegie Tech spirit. These four games were lost, however, but not without a spirited fight.

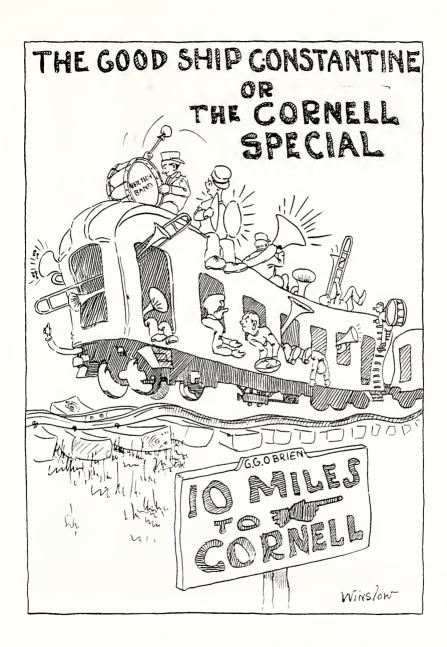
The team was very light, and every one of the four defeats can be attributed largely to this cause. At the Pitt game the old rivalry was more marked than ever. Every one of the wearers of the Plaid fought tooth and nail and held the strong team to the very low score. Captain Marshall was a star in each game and could be depended upon at any stage of the battle. It is with great regret, that "Phil" along with "Scoops" Carey and "Vet" Williams will not be with us next year. The large number of Freshmen who were out for the squad, along with the older men, will form a good nucleus to work on for a banner 1920 team.

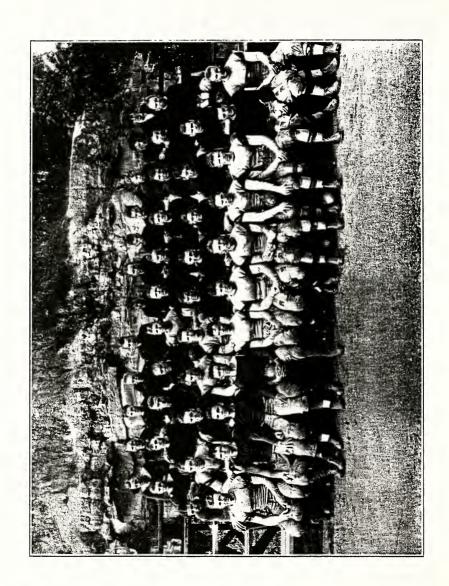
C. B. SCHMIDT.











STATISTICS 1919 FOOTBALL SQUAD

Name	Position	Аде	Weight Height	Height	Vears on Team	Preparatory School	Class	Division	Course
Marshall, Philip P. Loomis, Thos. J.	Haifback Fullback	5 6 6	160	5-7	80	Peahody High Sufficht School Reteres	1920	Science	Civil
		;	È	:	:	Prep.	1953	Industry	Muchine Construction
Baldwin, J. S.	Halfback	2.5	99.	5-8	0	Eastern High	1950	Psychology	Insurance
Mittmer, A. E.	Quarterback Fad	ş <u>s</u>	922	6-8	٥ .	Dean Academy	1923	Industry	Building Construction
Williams S	Tuckle	6	2 2 2		- 0	Amegneny Ingn	2261	Soint	Melalling Construction
Roth, Milton S.	Guard	502	185	0 -6	: 0	Butler High	1923	Science	Mining
Irwin, Alfred	Center	98	150	5- 9	•	Washington High	1923	Seience	Metallurev
McClean, Harold J.	Guard	6: -	175	0 -9	=	Peabody High	1992	Industry	Power Plant Management
Moon D. J.	Tuckle	10	184	9	5	Character High	1000	Lanhantan	and Operation
Godden, Harold C.	Fnd	- 61	25	2-1	-	Olean High	22.61	Industry	Machine Construction
Brunwasser, Mex.	Fullback	66	155	8	. 00	Fifth Avenue High	1991	Science	Mining
Levy, Abe	Quarterback	66	156	5-7	=	Central High	1099	Science	Metallurgy
Bloom, Fred	Quarterback	16	9	5-5	-	Parnassus High	1991	Science	Mechanical
Marshall, Roger	Halfback	60	150	5- 9	0	Peabody High	1923	Industry	Muchine Production
Rusself, A. W.	Halfback	50	160	5-10	=	Peddie Institute	1920	Psychology	Insurance
Bollinger, F. E.	Halfback	£	2	2-8	8	Peabody High	1920	Industry	Machine Production
Hayes, 15, G.	End	21	160		=	Suffield School, Butgers			
						Prep.	1923	Industry	Building Construction
Tennucl, A.	Find:	61	9	2-10	=	Schenley High	1923	Science	Beetrical
Roberts, Willard	Tackle	51	28	<u>.</u>	e	Keokuk High	1923	Science	Electrical
Carey, Homer F.	Guard	53	180	- - -	-	Oakmont High	1930	Science	Mining
Gwinner, R. H.	Gmard	1 8	175	5-9	•	Salem High	1923	Science	Mechaneial
Saylor, D. C.	Guard	57	190	5-8	_	Westehester Normal	1930	Science	Mechanical
Henderson, H. C.	Tarkk	61	170	-9	-	Greenshurgh High	1881	Science	Mining
Plannery, E. G.	Tackle	66	170	5-11	0	Stanton Military Acad.	1923	Science	Metal
Goldberg, Nathan E.	Guard	35	661	2-10	0	Central High	1923	Industry	Building Construction
Swift, R. A.	Fullback	16	160	5-11	-	Avalon High	1991	Seicnee	Chemical .
Curlis, George W.	Guard	98	155	2-1	-	Canton High	1922	Science	Commercial



"WALLY" STEFFEN
Head Coach



"SALT" ALTDOERFER
Assistant Coach

1919 Varsity Team

OFFICERS

PHILLIP P. MARSHALL,	20 .							Captain
NEAL J. CAMPBELL, 20						-		Manager
Horace G. Nichol, 21						E:mat	1 00/0	lant Managano
PAUL J. UNZICHER, 22	•	•	•	•	•	F irsi	.488181	ant Managers
WALTER P. STEFFEN .								Head Coach
F. E. ALTDOERFER							.4	ssistant Coach
WM. M. MUNHALL .								

PERSONNEL

PHILLIP P. MARSHALL, '20
HAROLD C. GODDEN, '22
A. E. Fletcrer, '23
Thomas Loomis, '23
H. G. Whitmer, '23
J. S. Baldwin, '20
S. Williams, '20
М. S. Roth, '23
Alfred Irwin, '23

H. J. McClean, '23 J. D. Moon, '23 E. G. Hayes, '23 Abe Levy, '22 Willard Roberts, '23 H. F. Carey, '20 H. C. Henderson, '21 E. G. Flannery, '23 Geo. W. Curtis, '22







THE THISTLE YEYEN

PHILLIP P. MARSHALL

Captain

"Phil" is a Peabody product, and justly can that school be proud of him. In his first game for Tech. in 1915, he ran down the field 95 yards for a touchdown. In his hast game for Tech he ran through Pitt 93 yards for a touchdown. All during his career he displayed wonderful mastery of football science, and was easily the leader of his team. Whenever the breaks were going against us, he could be heard cheering his men on, and putting fighting spirit into their veins. We will always remember "Phil" by his quiet and gentlemanly manners, always giving a square deal, and full of pep.





HAROLD C. GODDEN

"Red" never did know when to stop breaking up plays and upsetting his rivals when they were about to put something over on him. He made a specialty of breaking up forward passes and diagnosing each play carefully. He has the distinction of being elected captain after one year's service, and a wise choice was made. Put a "peppy", red-beaded, strong and initiative player at the head of a team and then watch results. We're with you "Red", and may success be yours. "Red" had his hand hurt in the early part of the season, but you would not have known it if you hadn't some inside information. He was always on the job when there was fun stirring, and usually one of the instigators. We can't beat Pitt next year, "Red", but we'll have a better team, anyhow.

A. E. FLETCHER

No one knew much about Andy before he arrived, but we had heard that he had played football before, and was somewhat of a "shark" at it. Coach Steffen gave him a trial in the Bethany game, and no one could have shown better judgment. As a result, he was the first choice at quarter and always could be depended upon. "Fletch" played in every game but W. & J., and the way he handled the Pitt game was wonderful.

He is a Freshman in Arts and his possibilities are great.







THE THISTLE



THOMAS LOOMIS

"Tom" came here with a bit of a reputation as a football player behind him. He lived up to it; always on the go, pushing ahead, carefully diagnosing plays and forever watching for trick plays. Whenever a few yards were absolutely necessary, "Tom" took the ball and Tech got the yards. He played a hard game always and was never out of condition.

He was badly crushed while in the Service, and many thought that his football days were over, but not so, and we think that "Tom" will be a big help next year. He starred at the start of the season against Bethany, and was the big help in every game.

H. G. WITTMER

"Ham" is the "fightingest" man—not only on the football field, but in the ring too. Hear about his fight with some Pitt fellow? Ask him. He is only a little fellow, but here it's a case of quality and not quantity. He is a 100% fighting man, and displays his vigor on the field much to his credit.

He handled his end position in great shape although his lack of weight was a handicap, he butted the hig 'uns down as well as those smaller.

As this is "Ham's" first year, we are expecting big things from him as he grows up.





J. S. BALDWIN

"Baldy" was one of the great helps to Coach Steffen during the early trying days of the season. He had played three years on the Allegbeny eleven, and knew football to a dot. He wasn't such a big fellow, but always hit the line with all kinds of pep. His specialty was end running, and he showed up well in this particular work.

"Baldy" was always figuring out plays, and his usual method was with the "galloping dominoes". He leaves us this year to go out into the world as Professor Baldwin. If he can teach as well as he plays football, his success is assured.





THE THISTLE XXXXXX

SYLVESTER WILLIAMS

Remember in 1916 when Pitt was stopped every time they tried a right end play? Well, it was "Vet" that stopped their runs, and he covered himself with glory. In 1917 he was captain-elect, but did not return to school until this fall. He shifted this year, and held down the tackle job in a very satisfactory fashion. In the first game he had the misfortune of having his nose broken, hut refused to leave the game until he was "yanked". "Vet" was always a consistent, heady player, and we will miss him, as this is his last year on the squad. He has done much to build up the fighting morale of the team, and will long be remembered.





MILTON S. ROTH

"Al" has a fondness for ladies, and on the trips as well as at home, he likes to fuss the fair sex. In Pittsburgh, he spends most of his time when not in training—over at the college on the hill—No—it's P. C. W.

But, admitting he fusses the ladies, he also "musses" up his opponents on the field. He plays a stellar game at center and guard, specializing on the latter. He had hard luck in hurting his ankle in the Allegheny swim-fest, and so was out of the latter games. This is his first year in school. and his chances are certainly good.

ALFRED IRWIN

Irwin, one of the lightest men on the squad and holding down the position of the heaviest, played one of the most aggressive games of anyone on the squad. His lack of weight was made up by his sure passing and ability to get the jump on his opponent.

"Al" is a Washington, Pa., product, and has been a close follower of athletics, as he kept tabs on football at W. & J. He made a wonderful showing in his home town when we played W. & J., and showed the natives some real local talent. The hardest part was that, as a Plebe, he had to act as porter to some of the upper-classmen, and displayed his strength to "the Gir".









HAROLD J. McCLEAN

"Hoss" is a Peabody High product, and early in life he developed a fondness for ladies, and this failing has never left him. He was so accustomed to looking around for them, that Steffen had to call him to the sidelines several times to tell him not to stand too high.

He made his debut in the Bethany game, and displayed considerable skill at guard. His aggressiveness and consistent playing made his berth permanent, and as this is his first year, there are big possibilities due from him. He is one of the heaviest men on the squad, and his weight was a hig aid to him in all games. He was knocked out several times, but always came back harder than before.

D. J. MOON

"Dent", the bashful man, bad the educated toe. His punting was the feature in many games and resulted in many gains. At Cornell, he gained ten yards on every exchange of punts; at W. & J., he handled the wet ball in a very creditable manner and made a hero of himself.

On the line he was aggressive and consistent, and able to get through almost every line to break up the defense. He was always to be depended upon to do his share in downing his opponents, and he tackled neatly.

He has an excellent build for a tackle, and with a three-year outlook ahead of him, Tech has a mainstay not only on the line, but also in the punting.



EDWARD G. HAYES

"Ed" came to us with Tom Loomis and, like Tom, had some athletic experience behind him. He had hard luck, though, with a sore foot that would not get well, and this incident kept him from being in more of the games.

"Ed" was the comedian in all of the trips and around the gym. He could recite Shakespeare. Whittier, and a few others, as well as "pulling off" some of his own. He was quite an artist on the mandolin, and could "string" them off pretty good.







THE THISTLE XXXXXX

WILLARD ROBERTS

Roberts, the big Plebe tackle, handled himself in a very creditable manner, and proved to be a big asset in Tech's football program. His weight and size nade it difficult to stop him when he made up his mind to go through. Due to the fact that there were other tackles of more experience. Roberts did not play in as many games as he might have, otherwise. He could always be depended upon, and with a bit more coaching will busiter up the line in true fashion.





HOMER F. CAREY

"Scoops" has been known for a long time, not only in football but as a stellar basketball performer, and by the way, he is captain of his team for this season.

"Scoops" is long and rangy, and can reach a long way. At Cornell, he almost had an argument with the referee 'cause he was penalized for holding. Imagine "Scoops" doing such a thing! He has always been a consistent player, never spectacular but always on the job.

H. E. HENDERSON

"Skitch" was always a reliable man to have at tackle. He could "dope out" plays with lightning accuracy, and could be depended upon by his back field men. He, too, suffered the substitutes bench quite a lot, but was always ready to jump in for his share.

He played his best game against Pitt—that is, for the time he was in. Always putting pep and fight into the squad, and full of it himself. Steffen's coaching is well demonstrated in this case, and next year "Skitch" will make a name for himself.







THE THISTLE YEVEY



E. G. FLANNERY

Flannery was a scrapper, and succeeded in instilling fight and pep into the team whenever it needed it. He always charged right into the midst of the action, and when the smoke cleared away a lot of the damage was due to him. He held down a seat on the "sub" bench, but when sent in he was "in for blood."

He played stellar games against Pitt and Cornell, and it was said that he was the scrappiest man there. He has a good build, and three more years to play, so watch his smoke next year.

GEORGE W. CURTIS

George was a busy man during football season. He had his Soph Class to look after, besides keeping things going on the football end of it. In spite of his lack of weight he made a good guard, for he was fast, snappy, and a consistent, heady player. He had substituted as end in former years, but was changed to guard to help bolster the line.

With his experience behind him, and his unconquerable spirit, his next two years should be recordbreakers for him in football.





ROGER MARSHALL

"Roge" took an excellent example from his brother, and played a brand of football that is hard to beat. He is aggressive, sure and dependable, heady, and quick to see a break on either side.

The Allegheny game proved his Waterloo when he was carried off the field with a broken ankle. He played several minutes of real football even after he was hurt, showing the spirit of which he is made.

He did not play the necessary number of games to win his letter, but due to his spirit, interest, self-sacrifice and hard work, it was awarded to him.







ABE LEVY

Levy was a very versatile player in the back field, and could be substituted into any position. His specialty was at quarter, and he displayed good judgment and handled bimself well at all times. At W. & J., he covered himself with glory and showed his ability to hold fast to a dripping-wet ball. He was very fast on his feet and made great end runs.

A Jinx pursued him, and just before the Pitt game he was budly injured in an automobile accident, which kept him out of the game. His injuries, while very serious, did not take long to heal up, and he was soon back on his feet again.

We are looking forward to a close race for quarter next year, and Abc will have an even chance.

Do you play Football?



FIVE VETERANS





THE THISTLE



"BURT" MUNHALL, Trainer

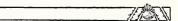


N. J. Campbell, Manager

1920 Football Schedule

Date		OPPONENT	PLACE
October 2		Yale	New Haven
October 9		Westminster	Home
October 16		Grove City	Home
October 23		University of Cincinnati	Home
October 30		Lehigh	South Bethlehem
November 6		Allegheny	Home
November 13		Bethany	Wheeling
November 20	-	Washington and Jefferson	Home







TECH 33-BETHANY 0

The day of October 4th dawned bright and clear. Big preparations were made for the first game, and every one was in a state of highest expectancy to see what our boys could do. The grandstands were filled, and the newly organized band filled everyone with pep and spirit. At 3:15 we kicked off to Bethany, and the season was on. By fast, careful playing, our boys outclassed their opponents, and several good prospects showed up. Acting Captain Phil Marshall was the individual star, by capturing three of the five touchdowns and also getting away on several long runs. Loomis also played a heady game, and made his debut in good form. Coach Steffen tried out several combinations, and gave his men a good test. "Vet" Williams suffered from a broken nose in the first quarter, but pluckily fought till he had to be taken out.





THE THISTLE YEAR



TECH 0-W. & J. 20

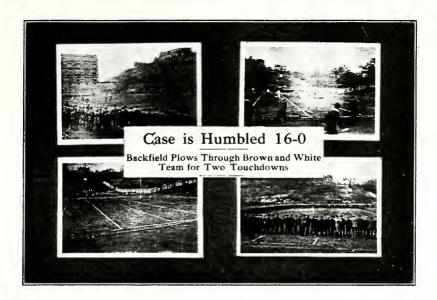
Did it rain at Washington? Well, I rather guess it did—it not only rained rain, but it also rained students, as the natives of that city thought. Two Specials left Pittsburgh with Techites aboard, and the little town of Washington, for once was a crowded place. Over one thousand students accompanied the team, led by their band of forty pieces. The students "peeraded" through downtown Pittsburgh and all over the city of Washington. Rain did not dampen the spirits of the rooters, and we cheered W. & J. off of the map.

The field was heavy with mud, and the rain fell in torrents. Our opponents were by far the heavier and, their weight was of a decided advantage. The game was featured by fumbles which in two cases were disastrous to Tech. On both occasions these fumbles resulted in touchdowns. The line held like a stone wall, and five times held W. & J. for downs.

Captain Marshall played his usual stellar game, and Moon showed up exceptionally well in the punting. Baldwin was injured in the fourth quarter, and suffered two broken ribs.







TECH 16-CASE 0

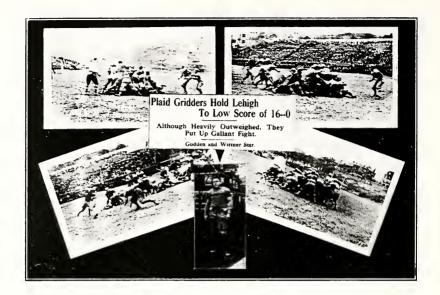
Straight football; with sensational end runs and gains via the aerial path were the order of the day when we took the measure of Case. Fletcher showed himself as the individual star by making some big gains due to his fleetness of foot and good football sense. The game was marred a bit by unclean playing, and several disputes were started. Loomis and Brunwasser made the touchdowns, and Fletcher kicked the goals. Bruni got into the game after Loomis was knocked out, and "Mista" Brunwasser proceeded to plow through the Case line for the second touchdown.

A capacity crowd witnessed the game and cheered wildly and well. When the Pitt score against Syracuse was announced—some cheered, others wept.





THE THISTLE YEVEN



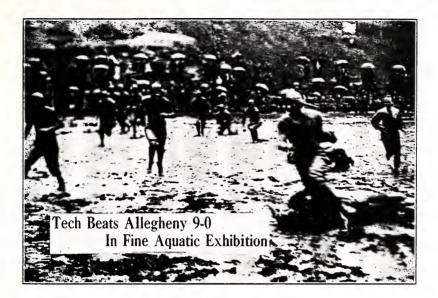
TECH 0-LEHIGH 16

Cn a fast field, before a large audience and against a group of seasoned players, Tech played a great game. Not once but several times did our line hold when a touchdown was seemingly inevitable. The Lehigh team was a well-balanced one, and one of the best that ever played on Tech field. The stands were well filled, and the cheering was above par. More than once the urgings of the students kept the team's morale up to such a standard that Lehigh found it difficult to penetrate the line.

Our two little ends played the best games—ever on the watch for passes and end runs. Irwin at center was in every play, and certainly did wonders. The game was played early, and at the close of the both teams were taken to see the last part of the Pitt-Georgia Tech game.







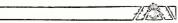
TECH 9-ALLEGHENY 0

RAIN? Well I rather guess it did, and as the Pittsburgh papers had it: "Carnegie Techites prove better mud-horses than Allegheny". The rain fell in torrents throughout the entire game, and the few hundred spectators were huddled up under umbrellas or newspapers. "Tom" Loomis thought he was still in the Navy, and did some wonderful dives, and submarined the Meadville boys several times.

Capt. Marshall made a touchdown in the second quarter, and Fletcher kicked the goal. In the beginning of the second half, Tech made a safety and brought up the total to 9 points.

A great many fumbles were made by both sides; however, the breaks were about even.





THE THISTLE XXXXX



CORNELL 20-TECH 0

Something exploded at Ithaca, and when the smoke cleared, the New York Staters had the larger end of the score. The big boys from Cornell were a bit scared of us before the game, but they settled down to hard work, and Capt. Shiverick went down for all the points.

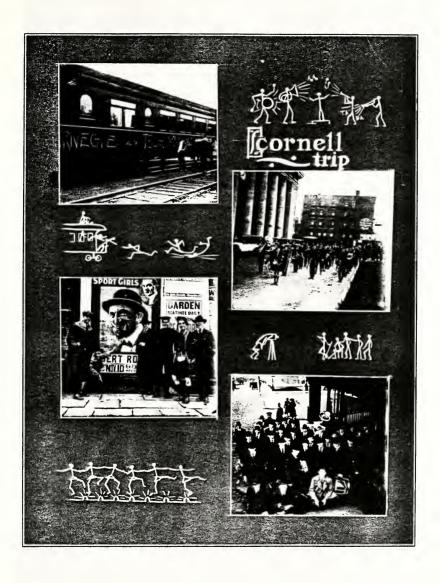
Moon considerably outpointed his opponent, and each time gained several yards in exchanges. The forward pass was initiated in this game to a greater extent than before, and some brilliant plays were made.

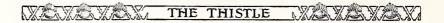
The Tech Band and the small group of Tech rooters outplayed and outcheered (?) Cornell from the start to the finish. The Ithacans marveled at the spirit shown, and learned what real pep is.











Pitt 17-Tech 7

DID you see that game? Wow! Coach Steffen, Warner, Doc Marks, and every other football fan in Pittsburgh said it was the best game of football they had seen played in Pittsburgh this year. We had a fighting team from start to finish, and every one of them was doing his "damdest". Pitt was scared, and they admitted it later—you remember how quiet their cheering stands were all during the first half. Were ours quiet, even when the score was against us?

Capt. "Phil" made a sensational 93-yard run for a touchdown. Loomis ran along-side for interference, and picked out the only man that had a chance to hit "Phil." The crowd went wild—Tech with joy and Pitt with fear. The Pitt goat over in the Tech side capered around knowingly, and the C. I. T. banner looked down from its lofty perch on the greased flagpole and smiled. At the end of the second half. Tech was cheering, using a locomotive as follows: 1-2-3-4-5-6-7. In the second half, Warner sent in all of his men he was saving for the State game, and by the hardest type of fighting scored two touchdowns and one field goal.

Every man on the Tech team starred and fought the fight of his life, and the Tech season was closed in a memorable way.

Line	up:—								
	Тесн								PITT
	Wittmer					L. E			McDonald
	Williams					L. T			Gourley
	Carey					L. G			Thomas, Capt
	Irwin					C.			Ginn
	McClean					R. G			Kratzert
	Moon					R. T			Markowitz
	Godden					R. E			Herskowitz
	Fletcher					\mathbf{Q} .			Hamburger
	Marshall					L. H			Aschman
	Baldwin					R. H	[Laughran
	Loomis					F . B			A. Breman
Score;	Pitt,	0	0	7	10	_	17		
	Tech,	0	7	0	0	_	7		

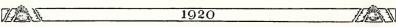
Touchdowns; Marshall, Hastings 2.

Goals from touchdowns: Fletcher, Davies 2.

Field Goals: (Placement) Davies.

Substitutions: Pitt—McCracken for McDonald, Meanor for Thomas, Stein for Ginn, McClean for Kratzert, Bond for Markowitz, Measley for Bond, Ewing for Herskowitz, Davies for Aschman, Morrow for Hamburger, Peters for Laughran, Hastings for Breman, Krotzer for Hastings.

Tech—Hayes for Wittmer, Roberts for Irwin, Flannery for McClean, Henderson for Flannery.

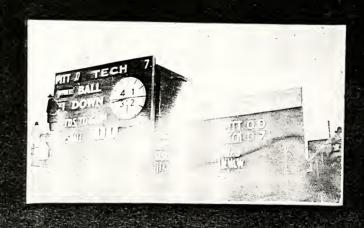


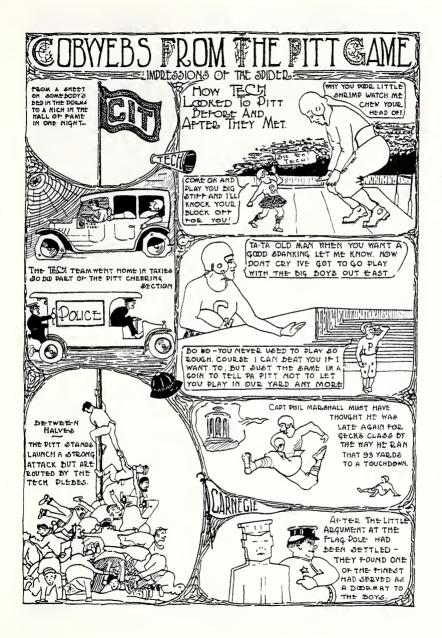




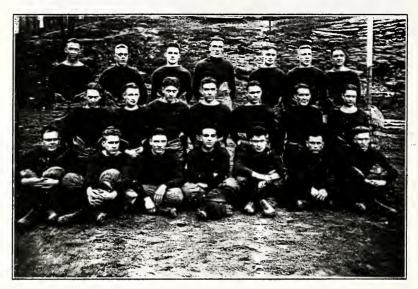
We nominate to the HALL of FAME
William Metcalf Cummins, the man who on the night of November 10, 1919, climbed the Flagpole at Forbes Field, and placed a Tech flag at its peak.







THE THISTLE XXXXX



FRESHMAN TEAM, 1919

SUMMARY OF SEASON

DATE	OPPONENT	Тесн	OPPONENT	P_{LACE}
Oct 11	Indiana Normal	0	0	At Home
Oct. 24	New Kensington High	14	0	New Kensington
Nov. 1	Kiski	0	25	Saltsburg
Nov. 15	Erie High	0	13	Erie
Nov. 22	Pitt Freshmen	0	39	Forbes Field







THE THISTLE YEYEY



CAPT, ANDERSON AND MGR. NICHOL



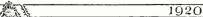
COACH HAZEL

Freshman Football, Season 1919

The Freshman Football Squad started out with bright prospects for a successful season, and considering the handicaps under which they were working, they did well.

There probably never was a year in the history of Teeh that so much real "Tech spirit" was displayed as was shown this year. The Freshmen came out in goodly numbers and worked like demons to make things go—and they did.

Even though the season did not end quite to our liking, we certainly are going to let the Frosh know that their work is appreciated by each and every one at Tech.









The Season

DATE	TECH	OPPONENT
APRIL 22	Tech 5	Duquesne 3
MAY 8	Tech 13	Lebanon Valley College 8
May 21	Tech 2	Ohio Wesleyan 9
MAY 29	Tech 4	Muskingum õ
May 30	Tech 4	Kiski 12
June 3	Tech 5	Muskingum 6
June 7	Tech 0	Penn State 9
June 9	Tech 0	Bucknell 11
June 10	Tech 2	Penn State 6
June 14	Tech 5	Indiana Normal 10





BASEBALL SQUAD, 1919

1919 Baseball

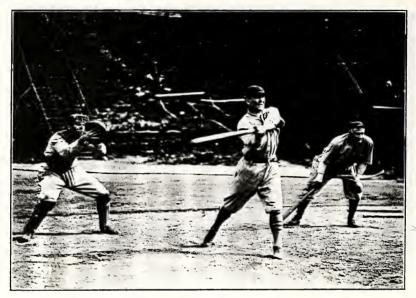
OFFICERS

M. Edward Gretzler John R. Gaugler	ł .	Captain Manager	JOHN HONUS WAGNER WM. M. MUNHALL	. E	('oach Trainer
		PERSO	ONNEL		
James A. Gates		Pitcher Shortstop Outfield Outfield Second	Charles O. Hoban . Elmer F. Weiss Harold C. Godden Edward S. Lundell		Outfield Pitcher Catcher Third
		SUBST	ITUTES		
W. H. Oakley J. F. Huffman		. Mauer . Good	N. Meyers A. L. Elliot	H. Lus G. E.	•





THE THISTLE YEAVEN



GATES AT BAT

Baseball, 1919

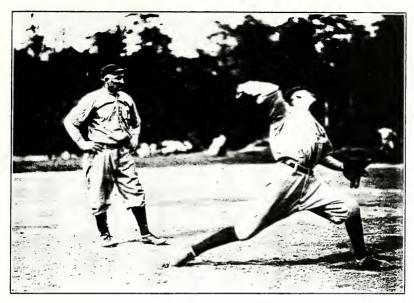
With the man that put Pittsburgh on the baseball map as its coach, the Tech Baseball team went through a great season. It has difficulty in getting and more difficulty in keeping the men on the squad up in their scholastic standing. The greater majority of the squad were green men and had to be taught the fundamentals of baseball. These men were taught in a manner that they will never forget, and the hopes for a star 1920 team are high and well founded.

"Gretz", as captain, was an ideal leader and will be missed by the men this year. He was also famous as a football and basketball player—always on the go and full of life.









ELMER WEISS

The number of games played was small, but this was due to the activities of Jupiter Pluvius who always shed tears at the wrong time. Bethany canceled all athletics, and therefore cut into our schedule. The game with Westminster was tried three times, and the most we could do was one and a half imings. On the eastern trip, Lebanon Valley College was the only game played, due to the weather conditions.

At the close of the season, Holmes W. Lynn, star short stop, was chosen captain and will prove a good leader. "Windy" plays a fast game and will set a good example for his men to follow. Alex. Drenx was elected to fill the shoes of Gaugler as manager, and is capaable of doing so. "Al" May will be his assistant, and a successful season is anticipated.







ABRAMS AT BAT



"LEFTY" LUSBY

1920

THE THISTLE YEAR



COACH WAGNER

The 1920 Schedule

DAT	E	OPPONENT	PLACE
Wednesday	APRIL 21	Duquesne	\mathbf{Home}
FRIDAY	APRIL 23	West Virginia	Morgantown
SATURDAY	APRIL 24	West Virginia	Morgantown
SATURDAY	May 1	Grove City	Grove City
THURSDAY	May 6	Grove City	Home
SATURDAY	May 8	Juniata	Home
FRIDAY	May 14	Bucknell	Home
Wednesday	May 19	Pittsburgh Collegians	Home
SATURDAY	MAY 22	Bethany	Bethany
SATURDAY	May 29	Bethany	Home
Monday	May 31	Muskingum	Home
Thursday	June 3	Juniata	Juniata
FRIDAY	June 4	Bucknell	Bucknell
SATURDAY	June 5	Penn State	State College
Wednesday	June 9	Duquesne	Duquesne
SATURDAY	June 11	Alumni	Home







The Basketball Season, 1919-1920

when the Basketball squad started its pre-

liminary work-outs. Coach Bert Bianchi was on hand to drill these men, and put them through good practices. Among the early arrivals on the floor were: Harry C. Hamman, a letter man of two years; H. W. Lynn, another two-vear letter man; Roy D. Foxon, who was Varsity for two years; H. G. Nichol, a fast guard from the previous season: A. F. Leete. another guard from 1918; P. D. Good, one of Tech's most energetic athletes; F. C. Wire, a center from last year; and Allan, a fast and steady forward. These men started work before the football season closed, and with the finis of football, Captain H. F. Carev, guard and center; J. D. Moon. a new man in our midst but with some athletic experience;

COACH BLANCHI

Harold C. Godden, a fast guard on his Plebe team; and among others that appeared on

Football had hardly ceased its activities, the floor were Dosey, Gibson and Maurer, With the older men as a nucleus, Coach

Bianchi was able to soon get a line on the new comers. The men practiced hard, and got together a fast combination. The one that seemed to work the best was: Hamman and Allan, forwards: Carev or Dosey, center: Moon, Lynn or Carey, guards.

The first game of the season was against Princeton, on January 2d. Putting up a hard fight, our boys took the smaller end of the 33-17 score. Right at this time the Faculty maul eliminated several good prospects for the team. Those who were withdrawn were Foxon. Nichol, Wire and Dosey.

With the pep curve high, the team journeved to Westinghouse Club, and brought back a 34-29 victory.

From then on, a Jinx seemed

to follow the team, and although they put up stubborn fights, the breaks were against





THE THISTLE XXXXXX

them. We lost to West Virginia, 22-21—a heart-breaking score. W. & J., in the last two minutes of play ran up six points, and took the 35-30 score. Allegheny's fast team invaded our territory, and after a nip and tuck game, left town with the larger end of the 23-21 tally. Grove City next, and the Jinx still with us; we lost, 39-32. The team then invaded Allegheny's territory and dropped the game, 46-26. The next night at Grove City they overthrew the Jinx, and defeated that college, 23-21. The next game, with Duquesne, resulted in Tech's victory at 41-36.

At this time of the season the book goes to press, and you will find the results of the remainder of this season in the 1921 Year Book. The schedule for the rest of the season is as follows:

Feb. 18	Westinghouse Club	at home
Feb. 20	W. & J.	at Washington
Feb. 26	Franklin & Marshall	away
Feb. 27	Rutgers	at New Brunswick
Feb. 28	Lehigh	at So. Bethlehem
Mar. 4	Colgate	at home

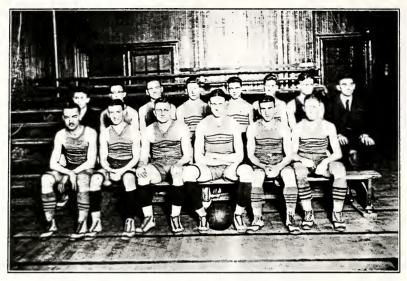


MANAGER YELLE AND CAPTAIN CAREY





THE THISTLE XXXXX



VARSITY BASKETBALI. SQUAD

Varsity Squad

OFFICERS

BERT BIANCHI					Manager ('oach
		PERSO	NNEL		
Hammann .		Forward	Lynn .		Guard
ALLAN .		Forward	Good .	. 4	 Guard
Dosey .		Forward	GODDEN		Guard
CAREY		Center	LEETE .		Guard
Moon .		Center	Nichol .		Guard
	Wire .			Center	



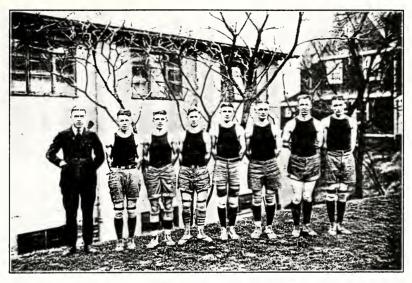
Homer F. Carey

1920



Captain

THE THISTLE XXXXX



FRESHMAN BASKETBALL TEAM

"SKITCH"	Hen	DERS	ON			Manager
Gibson						Forward
McCaw		,				Forward
McKenna						Center
MILLER			,			Guard
ANDERSON						Guard

GAMES PLAYED

Date	Opponent	Plebes	Opponent
Jan. 10	Westinghouse Reserves	32	31
Jan. 17	South Hills High	43	28
Jan. 21	Indiana Normal	44	36
Jan. 24	Bellevue High	31	32
Feb. 11	Dusquesne High	33	31
Feb. 13	Bellevue High	27	59







Fraternity-Dormitory Basketball League

AMERICAN LEAGUE

Won								Lost	
Sigma Nu				4					0
Kappa Sigma	Rho			4					1
Dorm No 4				3					1
Sigma Alpha l	Epsilo	n		2					1
Delta Upsilon		÷		2					1
Opheleum				2					2
Dorm No. 2				1					3
Dorm No. 6				0					4

NATIONAL LEAGUE

		Won					Lost			
Theta Xi .			3					0		
Woodlawn Club			3					1		
Tau Gamma Phi			3					1		
Dorm No. 1 .			3					1		
Sigma Rho .			1					3		
Phi Epsilon Pi			1					3		
Delta Epsilon Ome	ega		1					3		
Xi Sigma Upsilon			0					2 (Forfeited 2)	

These standings are for games played up to February 17th, the date of going to press.

1920



Track Season, 1919

The Track Season of 1919, under the direction of Coach Bill Hazel, was very successful; perhaps not from a victory standpoint, but from the viewpoint of a good start for a well-balanced organization and increasing spirit. The squad started out under handicaps of: no winter training, few old men, and the old Faculty maul. With but a couple of veterans on the squad, the coach had his difficulties in getting a good line on his men. New talent appeared, and the ball started rolling with about fifty men on the squad.



CAPT. SCHMIDT

The Penn Relays loomed up as the big starter, and a score of men tried for berths on the team. The fight was reduced to: Schmidt, captain, Hiller, Gare, Russell, Sachs, Stone and Nieman, of whom Schmidt, Hiller, Gare and Sachs, with Stone as substitute, were chosen to represent the school at Philadelphia. The race was lost to W. & J., by a very few yards, the time being 3.35%. With more pep and determination the squad resumed work, and on April 29th the Sophomores easily won the Handicap Interclass Meet. The Pittsburgh Press Meet Handicap was next, and the big end of the 33—17 score went to Pitt. Several of the best men on the squad were held out, due to scholastic standing, but they were not discouraged.

The Lafayette Meet at Easton brought them against real hard and organized competition, and the final score stood 71%-40% Lafayette. The Dennison Meet was next on schedule, and remembering the close fight the year before, our men were primed for the occasion. The same fight was displayed by both teams as in the former year, but the score was not as close, Tech winning 78—36.



MGR. LITTLE





Every one had on his fighting clothes for the Pitt Intercollegiate Meet, but the weather man made the track impossible to run on, and the meet was called off. The next week brought on the big Tech Interscholastic Meet for High and Prep schools, and the Varsity's Dual Meet with Allegheny. The former was won by Shaw High School of Cleveland, which brought down a peppy and fighting squad. In the Varsity Meet, due to tardiness of some of the members, the score stood 58-68 in favor of Allegheny. In this meet, Ellerton broke the school discus record with 115 ft. Sacks, the old "iron horse", ran and won the half-mile, one-mile and two-mile races, and would have run in the relav if he were needed. Capt. Schmidt reeled off the quarter in 511/5, his best time for the year.

The Geneva Meet at Beaver Falls was the last meet of the season. Tech easily captured this with a score of 71—46. In this meet, Ellerton again broke his discus record with a distance of 119 ft. 31/2 in. to his credit. The Relay Team broke the school records running the mile in 3.28%.

The season over, everybody happy, thoughts and plans were made for the 1920 season. The squad lost through graduation: Ellerton, Davidson, Faville, Sacks and Juergens, all of whom will be greatly missed. C. B. Schmidt was re-elected captain, and is working hard to increase the fighting spirit of his team. Manager C. K. Little deserves much credit for his efficient methods in handling the team, and his successor, E. J. Rehm, is showing his ability in successfully caring for the wants of the new squad.

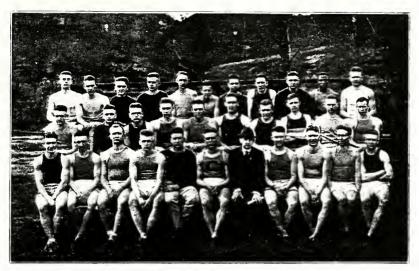


COACH HAZEL

The letter men for the year were Captain Schmidt, Sacks, Ellerton, Davidson, Gare, Petry, M. J. Smith, Juergens, Russell, Faville, Hiller, Stultz, Harriman, Manager C. K. Little. Of these men the following will be on hand for 1920; Captain Schmidt, Hiller, Gare, middle distance runners; Russell, sprints; M. J. Smith, Stultz, Harriman, in the jumps. With this nucleus a strong team should be organized, and 1920 will be a banner year for track.

What are you doing for Tech? You may be a Track Man! See Coach Hazel





TRACK SQUAD, 1919

Resume of the Season. 1919

OFFICERS

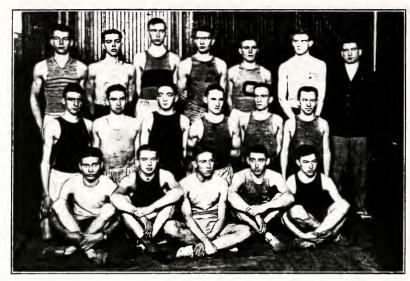
CLARENCE B. SCHMIDT					Captain
C. Kenneth Little					Manager
Ernst J. Rehm .			As	sistan	Manager
WILLIAM J. HAZEL .					Coach
WILLIAM M. MUNHALL					Trainer

Track Meets' Record, 1919

Date	Event	At	Tech's Place
April 26	Penn Relays	Philadelphia	Second
May 3	Pittsburgh Press	Schenley Oval	Second
May 10	Lafayette Dual	Easton	Second
May 17	Dennison Dual	Tech Oval	First
May 31	Interscholastic and Allegheny Dual	Schenley Oval	Second
June 7	Geneva Dual	Beaver Falls	First







CROSS-COUNTRY SQUAD



CAPT. GARE

Cross-Country, Season 1919

Coach Hazel sounded the bugle call for track men to report for training in cross-country work. Many men came out and endured the hard work-outs in disagreeable weather, which showed that "Tech spirit" could not be beaten.

Two meets were held: one at Cornell, in which we lost by a score of 77 to 28 points. In this meet, Captain Schmidt injured his ankle, and was forced to discontinue work for the remainder of the season. The other meet was held at Allegheny. This time we were nosed out by Pitt by 2 points.

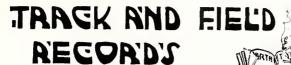
Later, a special meet was held with Pitt, and Tech men crossed the tape first in six of the eight events, but these results were contested by Pitt, so it was termed a "No Meet". Efforts to arrange another meet with Pitt were unsuccessful, owing to the breaking off of athletic relations by Pitt.

The men who finished the season were Captain Gare, Code, DuVall, Gotham, Greenlaw, Gossard, Eosdwick, Hiller, Hough, Kossler, Livingston, Miller, McDonald, Nutting, Patterson, Pierce, Reilley, Smith, Thomas, Wilson and Zimmerman.

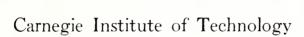












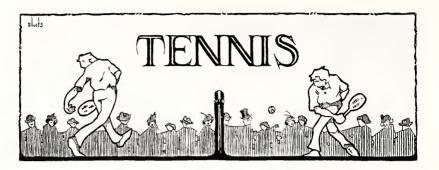
Event	Time or Distance	Holder	Meet	Year
100 yards	10⅓ sec.	E. Dowling, '09	Pitt Intercollegiate	1909
		C. M. Crawford, '13	W. P. I. A. A.	1911
		E. W. Steinmetz, '14		
		C. E. HEMMANN, '17		1916
220 yards	22 sec.	E. W. Steinmetz, '14	West Virginia Dual	1911
440 yards	50 3/5 sec.	C. E. Hemmann. '17	Pitt Dual	1916
880 yards	2 min. 12/5 sec.	E. R. HAZELTON, '15	Pitt Dual	1914
1 mile	4 min. 31 sec.	E. R. HAZELTON, '15	Pitt Intercollegiate	1914
2 miles	10 min. 26½ sec.	E. R. HAZLETON, '15	Allegheny Dual	1913
120 yard Hurdies	16 sec.	C. M. Crawford, '13	Penn State Dual	1912
220 yard Hurdles	25½ sec.	GUY HALFERTY, '09	Pitt Intercollegiate	1909
High Jump	5 ft. 9½ in.	EDWIN HAUB, '19	Pitt Intercollegiate	1916
Pole Vault	11 ft. 4 in.	Н. Т. Wright, '15	Westminster Intercollegiate	1915
Broad Jump	21 ft. 5½ in.	HARRY BREMMER, '18	Westminster Dual	1915
Discus	119 ft. 3½ in.	Geo. Ellerton, 19	Geneva Dual	1919
16 pound Hammer	r 128 ft. 4 in.	J. C. Roe		1910
16 pound Shot	40 ft. 6½ in.	Geo. Ellerton, '19	P. A. A. Dual	1919
1 mile Relay	3 min. 28% sec.	(H. F. NIEMAN) P. SACKS M. S. GARE C. B. SCHMIDT	Geneva Dual	1919









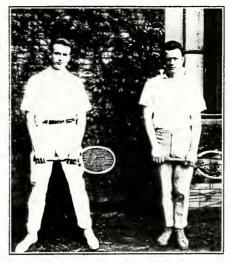




VARSITY TEAM



THE THISTLE XXXXXX



CAPT.-ELECT STOCKSLAGER

CAPT. BEATTY

The Team

John D. Beatty, '20 Francis J. Nutall, '19 Col. John C. Brooks E. S. Stockslager, '20 D. B. Gawthrop, '20 Captain
Manager
Coach
C. J. Copley, '21
J. C. Harkness, '21





THE THISTLE XXXXXX



MGR.-ELECT HIRSCH

MGR. NUTTALL

Summary, 1919 Season

DATE	Opponent	Court	Тесн	Opponent	
May 14	Pitt	P. A. A.	5	1	
May 26	W. & J.	Home	3	3	
May 28	W. & J.	Washington	2	4	
May 29	Grove City	Grove City	6	0	
May 30	Westminster	Westminster	6	0	
June 3	Westminster	Home	5	1	
June 7	Grove City	Home	5	1	
June 11	Pitt	Home	6	0	



1920





COLONEL BROOKS, Coach

Tennis, 1919

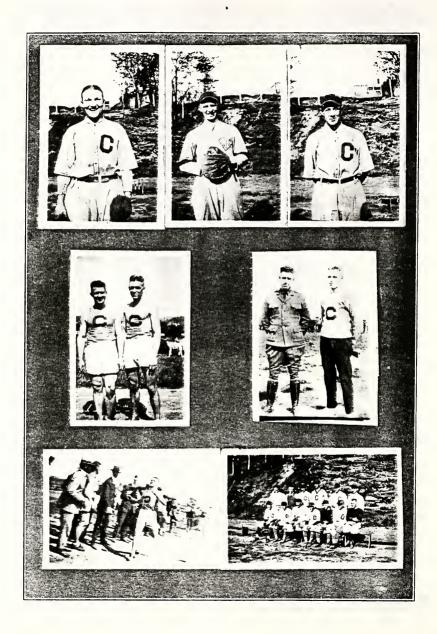
Tennis started out with a bang last spring, and a large squad appeared for the try-outs. Out of this squad. Colonel Brooks picked a representative team, and worked the team into a finished product. Captain Beatty played a stellar game all season and will be a big factor on the team in 1920. In fact, the entire team will be available for the 1920 season, and big results are expected. Our rivals across the way were sadly out of it in tennis as the summary shows.

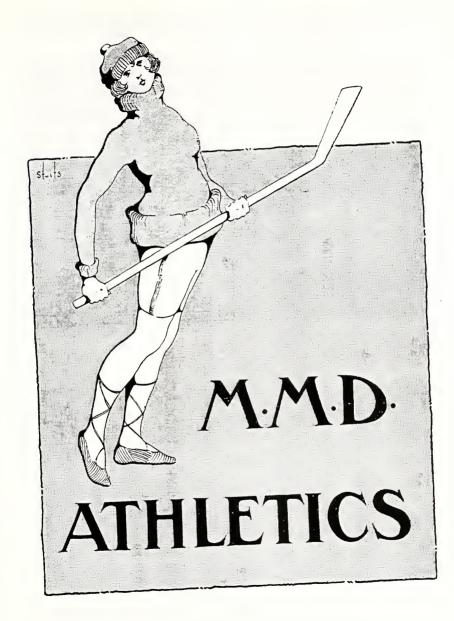
E. S. Stockslager was chosen captain for 1920, and will prove an able leader, besides "shaking a mean racket". Ed. Hirsch will arrange the games and assume the duties of manager, with J. J. Gorman as his assistant.



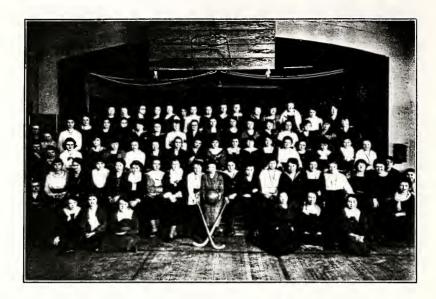








THE THISTLE YEAR



M. M. C. C. Athletic Association

The Athletic Association has been better supported than in any year heretofore, both in membership and in representative sports. It is the aim of each member of the association to make as many points as possible. Each one making the class team in volley ball, basketball, field hockey or tennis, is credited with ten points, and those on the winning team are entitled to five additional points. Points may be earned also in swimming and hiking. For one hundred points, a school sweater is awarded; for fifty points, a pin. Each sport has a manager elected by the association, which has served to forward that sport, and a very bright future is predicted.

OFFICERS

Anita O'Connor .				. President
MARY ZABOBSKY				. Vice-President
VIVIAN SCHMUCKER				Secretary-Treasurer
MILDRED SPENCER				Head of Hackey
Amelia Schade .				Head of Tennis
Mable Alexander				Head of Basketball
Mary Zarobsky				. Head of Hikes
HELEN HESTER .				Head of Swimming







Senior Basketball Squad

GLENN SHERIFF, Captain

E. Barret

H. STONE

M. Bechetl

H. WALTERS

E. Cox

Е. Нове

F. Inskeep

I. Friedman

A. O'Connor

F. Roberts

A. Wirth









Junior Basketball Squad

Lois McCombs, Captain

M. Alexander

D. Auerswald

M. Danley

B. Murphy

A. Gumbert

A. Shade

V. Schmucker

M. Spencer

D. Turkle

M. Zarobsky

U. Sloan









Sophomore Basketball Squad

ELEANOR FOSTER, Captain

A. Sheppard

J. Aiken

M. LITTLE

I. Winner

М. Ѕмітн

M. HILLER

M. McCombs

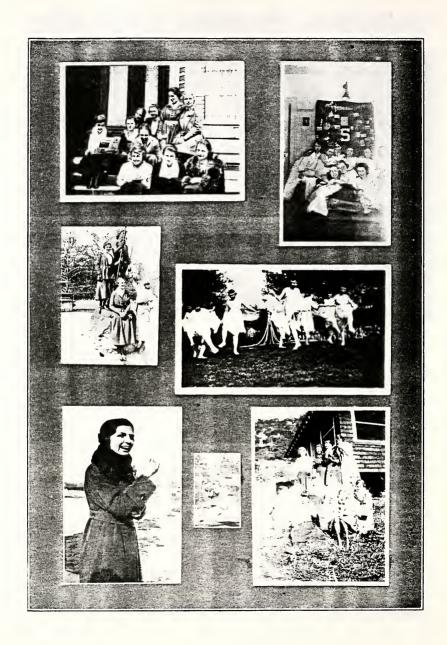
B. Dotterway

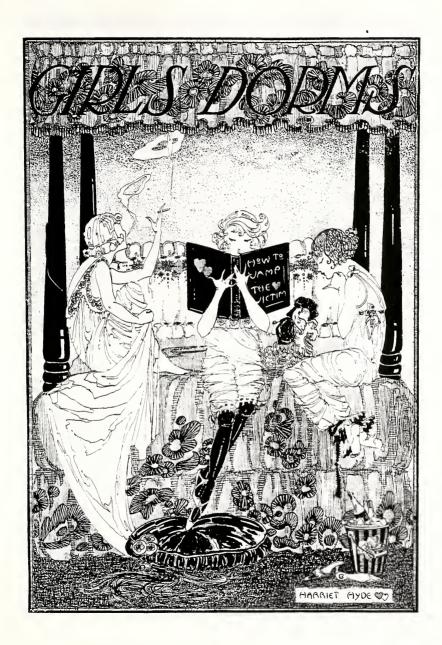
V. Barr













Forbes Hall

Forbes Hall—the dorm with a reputation—that is, of course, a reputation for good times and "unbroken rules". Even if we are quiet and demure, we're never in the dark about anything, except when our bill is so high that the school finds it necessary to turn the lights out for us. But when those lights are turned on, we surely are a blaze of glory—ever notice that we have lights on the outside as well as inside? It's too bad we didn't have the extra lights last year to break up the parties mentioned in the *Puppet*. (For further reference see "Beau" Burke.)

When it comes to popularity, we head the list, for whoever heard of a man coming to any other dormitory at two A. M., just to say "Good morning"? It wasn't the milkman, either!

Our doorbell and telephone are heard constantly. The high average of "love epistles" with special delivery stamps attached cost so much in batteries and loss of sleep that a special fund was proposed to meet the expense.

The monthly parties have been a howling success this year. Dances which were proper from a social standpoint were nevertheless quite popular, and the general opinion is, that "a good time was had by all".





THE THISTLE YEVEY



Mellon Hall

With a whoop and a bang. Mellon Hall is again filled with merry Freshmen. Freshmen-conquering Sophomores, semi-serious Juniors and very serious Seniors. In the third year of Mellon Hall's existence, on October 4th, the few peppy Sophs rallied the Freshmen and compelled them to pray for rain. They regretted this, because shortly after we had rain for nineteen consecutive days!

An effort will be made to add to the collection of Webster. The words recommended are Horsecollar and Apple of my eyebrow, expressing respectively, disgust and admiration.

As inmates of Mellon Hall, we have been recipients of many joys, but a tragedy occurred recently. The reign of Rupert II, whose palace was in second floor rear, terminated with his execution in a rat trap!

Paths to sylvan dells may be muchly frequented, likewise those to a hidden cellar, but there never was a path so well-trodden as the one leading to the land of chocolate bars— Hibbie's room!





THE THISTLE



Mellon Annex

Mellon Annex is more familiarly known, no doubt, to the students of this institution as "The Stable." Starting at the steps of Margaret Morrison, one is overwhelmed by the extreme simplicity and beauty of its architecture. One is even more impressed as he climbs the steps one by one,—also more overwhelmed. This is the one dorm on the campus where all hour rules are observed. Its lighting system is worthy of mention, provided you speak in whispers. The shining lights in the driveway are just as popular (?) as the shining lights inside.

Although our chaperon, Miss Ruthrauff, finds her protégées a bit unruly at times, she always understands and will always be remembered.





THE THISTLE YEAR



Woodlawn Hall-Section 1

The Woodlawn Dormitory, which made its initial appearance this year, has already acquired the attributes which make a jovial abode for fair young ladies—namely, mice, matrons, men and music. Living in separate houses, one might think our friendships would be hampered, but the effect of gathering around "the congenial board" at 5151 has put a stimulus to our associations which might be termed "Divided we live; together we fall"—figuratively speaking—"fall to eating!"

But now I ask you, haven't we the grandest place to live? Gay young lads pass every hour of the day as well as the night. And you ask if they all pass? Well, hardly! Step into the corner house some Sunday afternoon. Oh yes! tea with lemon at four-thirty. However, don't venture up to the third floor, better known as the "barn". That is where we keep the wild animals, including squirrels, prunes, and social workers. We feed them toast and catsup.

Didst gaze in the windows the night of our Hallowe'en dance? Don't be jealous, young man. Send us some violets, and we will invite you to the next dance. But here is a warning—do not come around when we are studying! Of course, we study! You should hear our austere discourses on "Social Work at the Rittenhouse," or "Twelve Reasons Why Employers Should Marry their Secretaries."





THE THISTLE



Woodlawn Hall—Section 2

Another famous "Three in One" production is offered to the public! From the corner—ignore two houses, skip one, count three and you have it—the second section of Woodlawn Hall! Regard us well, gentle reader.

Renouncing perforce many material blessings, as for example, living rooms, telephones, study tables, waste baskets, and heat, we are far above the average spiritually, and exceeding great in ingenuity.

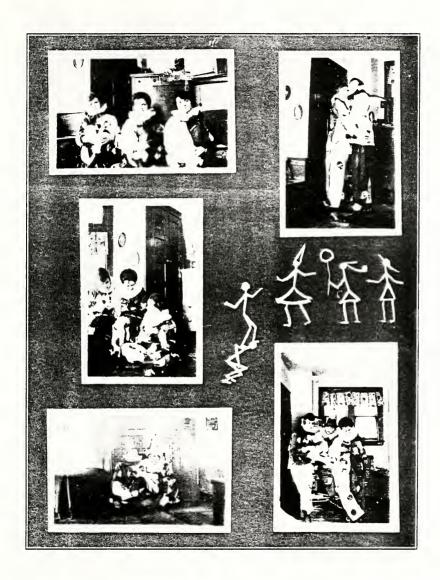
We have developed a stoic and Eskimo-like indifference to cold; we strive to make up for lack of furniture by sheer force of personality; we blithely deposit refuse in the hall; we use the mantelpiece to study from; we scorn pianos and victrolas and resort to our individual vocal endowments.

Then too, we use the corner house for dances and have the soul-satisfying thrill of knowing that our otherwise more favored colleagues are hanging longingly and perilously over the banisters watching the revel.

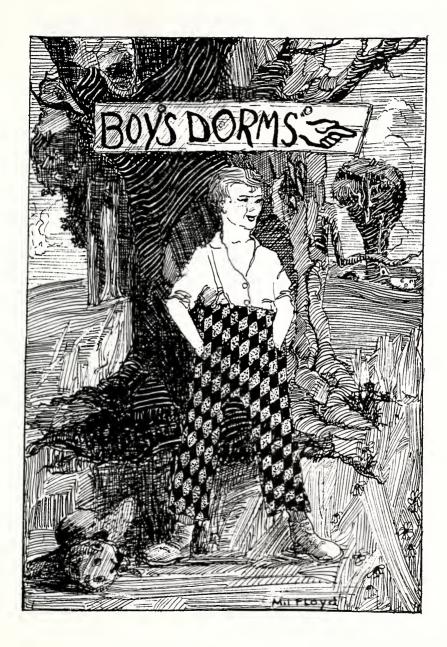
If we survive the rigors of winter, it can go down in the records as a happy year, for as you notice, we're "Smilin' Thru."

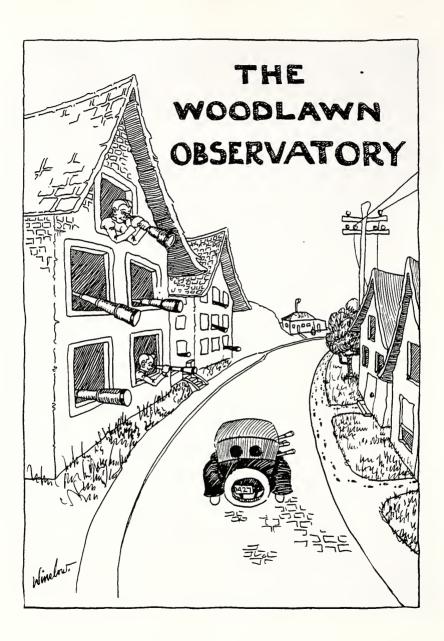












THE THISTLE YES



DORMITORY No. 1

OFFICERS

E. E. FLYNN					President
T. J. Jendrasiak					Vice-President
L. A. YODER				,	Treasurer
E A BRAND					Secretary









DORMITORY No. 2

OFFICERS

C. B. Bryant						President
D. S. Harding				Secr	etary a	nd Treasurer





DORMITORY No. 4

OFFICERS

J. L. McCull	OUG:	H				Presider
C. J. COPELY						Vice-Presider
H. R. Tumin						
A ROSENGARI	ru					Secretar



THE THISTLE YEAR

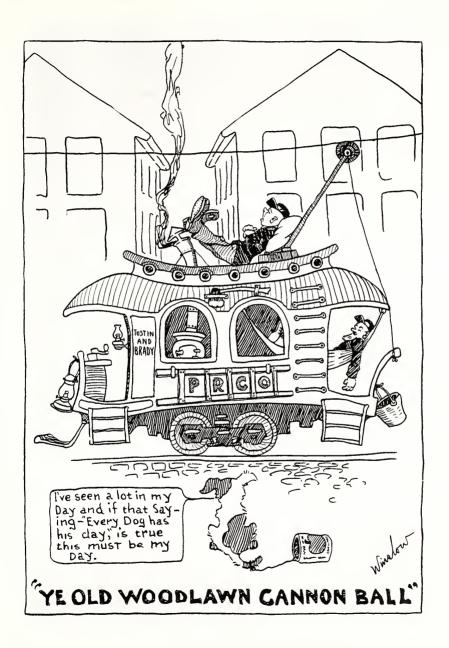


DORMITORY No. 6

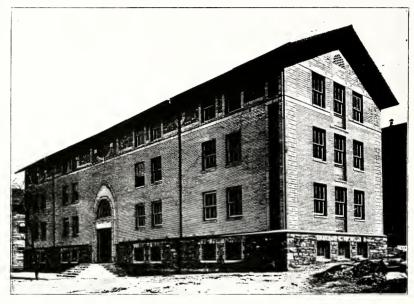
OFFICERS

D. W. DuVall					President
PERRY CAMPBELL					Vice-President
F. L. Knowles					Secretary
R. C. CORDERMAN					Treasurer



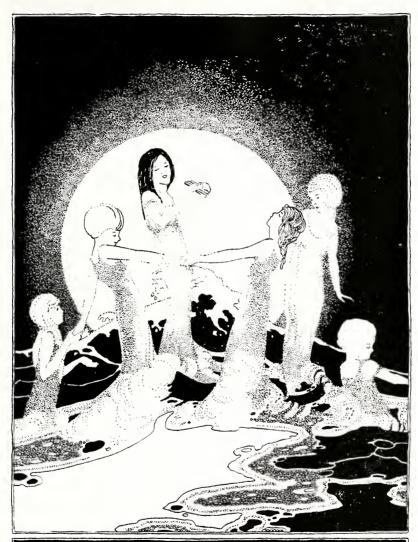


THE THISTLE XXXXX



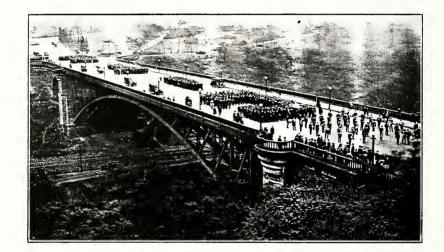
ONE OF THE NEW DORMS





ACTIVITIES

THE THISTLE XXXXX





Drama

Plays given in the "Little Theatre" in the year 1919-20

OCTOBER OCTOBER						
The Portrait of a Policeman						
The Land of Heart's Desire W. B. YEATS The Well of the Saints NOVEMBER NOVEMBER Mary's Lamb HUBERT OSBORNE Back of the Yards THOMAS SAWYER GOODMAN The Nursery Maid of Heaven THOMAS WOOD STEVENS Blackberrying HOWARD FORMAN SMITE Riders to the Sea LADY GREGORY DECEMBER Three of Us RACHEL CROTHERS JANUARY Dust of the Road THOMAS SAWYER GOODMAN The Bracelet SUTRO						
The Well of the Saints						
November November Hubert Osborne						
November November Hubert Osborne						
Mary's Lamb HUBERT OSBORNE Back of the Yards THOMAS SAWYER GOODMAN The Nursery Maid of Heaven THOMAS WOOD STEVENS Blackberrying HOWARD FORMAN SMITE Riders to the Sea LADY GREGORY DECEMBER Three of Us RACHEL CROTHERS JANUARY Dust of the Road THOMAS SAWYER GOODMAN The Bracelet SUTRO						
Back of the Yards THOMAS SAWYER GOODMAN The Nursery Maid of Heaven THOMAS WOOD STEVENS Blackberrying HOWARD FORMAN SMITE Riders to the Sea LADY GREGORY DECEMBER Three of Us RACHEL CROTHERS JANUARY Dust of the Road THOMAS SAWYER GOODMAN The Bracelet SUTRO						
The Nursery Maid of Heaven Thomas Wood Stevens Blackberrying Howard Forman Smite Riders to the Sea Lady Gregory December Three of Us Rachel Crothers January Dust of the Road Thomas Sawyer Goodman The Bracelet Surse						
Blackberrying Howard Forman Smite Riders to the Sea Lady Gregory DECEMBER Three of Us Rachel Crothers JANUARY Dust of the Road Thomas Sawyer Goodman The Bracelet Sutro						
Blackberrying Howard Forman Smite Riders to the Sea LADY GREGORY DECEMBER Three of Us RACHEL CROTHERS JANUARY Dust of the Road Thomas Sawyer Goodman The Bracelet SUTRO						
Riders to the Sea LADY GREGORY DECEMBER Three of Us						
December						
Three of Us						
January Dust of the Road						
Dust of the Road						
Dust of the Road						
The Bracelet						
Double Dyed Dramatization by Kenneth Trompson and Owen White						
Betty Jumel Dramatization by OWEN WHITE						
FEBRUARY						
Opus I, Sunday for Dinner Dramatization by I. D. R. HAZEL						
The Phantom Bride James Daly						
Rainald and the Red Wolf Thomas Wood Stevens and Thomas Sawyer Goodman						
Trelawney of th Wells PINERO						
·						
MARCH AND APRIL						
John Gabriel Borkman (Mostly Graduate Cast) . lbsen						
The Admirable Bashville Shaw						
Everyman Stevens						
The League of Youth . lbsen						
A Man Can Only Do His Best Thomas Sawyer Goodman						
A Shakespere Play						







THE THISTLE YEX



The Extravaganza

BOHEMIA UNLIMITED—THE INTIMATE MUSICAL ENTRAVAGANZA—doesn't that speak for itself?

It was Bohemian, of course, for the Division of Arts had to live up to its reputation. Limited or Unlimited, as you like, it wasn't really fast, though it covered a lot of space in one short evening. It wasn't really unlimited, for there was a limit, though some might not have noticed it. There was lots of intimacy in it. Remember the soloist and the Eskimo Babies, but above all, the intimate way in which Buck spoke to the stage hands.

The idea originated with the Drama Department—they planned the whole thing—and Buchanan, White, Smith, and Church wrote the book. The leading parts, speaking, singing, and dancing, naturally fell to the Drama students, though Mr. Colette and Mr. Saliers put on a clever French sketch. Drama also furnished most of the scenery, but the Decoration Department lent its time and talent in the making of the Chinese drop, and the Architects, with Mr. Saliers, made part of the setting for the Nile and the Pierrot scenes.

Hans Muller made the costumes. That was a show in itself! Beginning about two weeks before and lasting up to the very night of the performance. In a little room up by the Loge, fitted out with four sewing machines and a couple of work tables, Hans reigned supreme. He bought, planned, cut out and directed, also did a great deal of the other work, while volunteer workers stenciled and sewed under his directions.







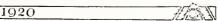
The Music Department furnished original music to meet all demands, and the orchestra to go with it, and the whole school was drawn upon for odds and ends, such as "niggers," chorns girls, and advertising managers.

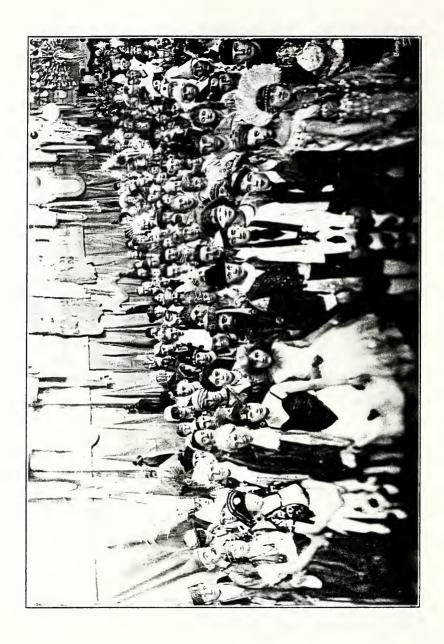
Most of the Techites saw Bohemia Unlimited, so there is little that needs to be said. It was played on November 21st and 22nd to a full house both nights. It took its audience on a round trip ticket through the land of Jazz. China, Japan to Iceland, and back by way of Egypt, Arabia, and Venice; with lots of singing and dancing and good-looking chorus girls.

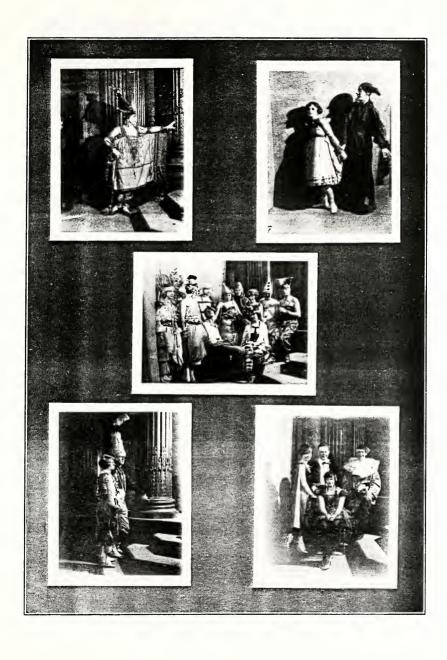
It would hardly be fair to relate the touching little tragedies of the dressing rooms, such as one costume missing and the chorus already called, but if the audience enjoyed the whole thing as much as the actors did, the nice things they said must be true.

No one who took part in the Extravaganza could forget the dress rehearsal. It was a cold night, outside and in. One could see Egyptian Maidens and Eskimo Babies huddled together over a radiator, awaiting their time to go on. Everything had to be repeated until it was just right. After physical encouragement of sandwiches and coffee, served at midnight, the second act began. This lasted the rest of the night, and it was a sleepy-looking bunch who left the Schenley at five-fifteen A. M.











The Des Moines Student Volunteer Convention

W E were well represented at the Des Moines Convention which was held from December 30, 1919. to January 4, 1920. The Y. W. C. A. at Tech sent the women delegates and the churches of Pittsburgh sent the men. Our delegation left Pittsburgh in a special car along with the delegates from Pitt and P. C. W. The entire group made merry the whole trip and had a real good time.

Almost every college in the country was represented at the convention, and forty countries sent their delegates. Our delegates let the people know where they were from by Tech songs, yells, and by wearing the plaid arm-bands. The convention was purely of a religious type, and many prominent speakers, including famous missionaries, were present. A great deal is expected from the delegates in the moral betterment of Tech.

Those who made the trip included:

From M. M. D.

MISS LENORA HONECKER MISS ELEANOR McCarson MISS MARY BECHTEL MISS GLADYS RAMSEY Miss Eleanor Cox Miss Lillian Coleman

From Science, Industry and the Arts

Mr. Geo. T. MILLER Mr. J. B. Carvalho Mr. C. B. Schmidt Mr. LEROY DE PRE FONTAINE Mr. KENNETH MCALPINE

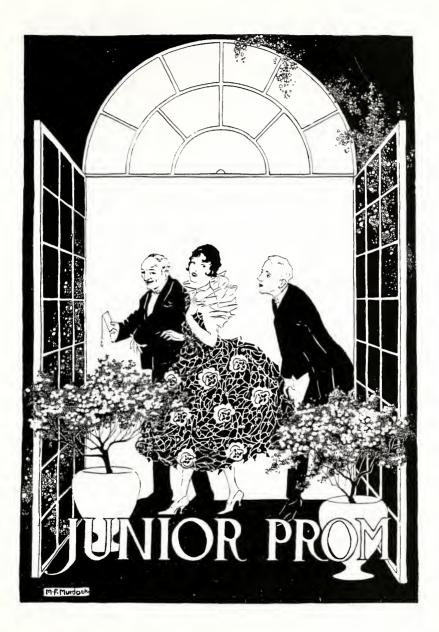
Mr. LeRoy Emerich

Mr. Roy D. Foxon Mr. C. M. Muir











The Junior Prom

COMMITTEE

C. T. McClean			Chairman
C. B. SCHMIDT			Secretary
H. G. Nicols			Treasurer
L. D. Pitts		R.	E. Dake
J. G. Todd		Η.	W. Lynn

NE feature which distinguished this Prom from those that preceded it, is that this was the first to be held in which all three of the men's schools participated. It is hoped by the entire class that this will set a precedent that in future years will become a custom.

There had been twelve Junior Proms at Tech up to February 20, 1920, when the Class of 1921 added this one, which made the thirteenth. However, the Thirteenth Prom will never go down in the memories of the one hundred and fifty couples that were present as an unlucky evening. The only bad luck suffered was by those who did not attend.

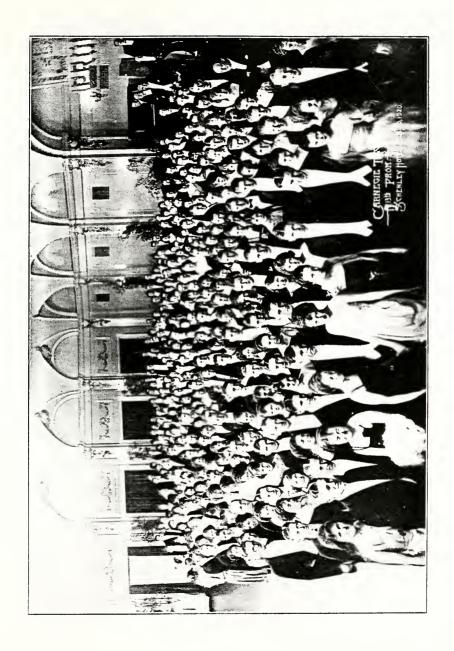
The ballroom of the Schenley Hotel was taxed to capacity, and the reception hall served many as a less crowded place to dance. At nine o'clock the Grand March swung down the center of the ballroom, and the Prom was officially opened. From that time till the last strains of the Home Waltz died away at two o'clock there was not a dull moment. At midnight, dancing was stopped for a half hour, when a delicious supper was served in the adjoining dining room. Two other intermissions during the evening were filled with exhibition dances. A Favor Dance caused much extra amusement, while a myriad of colored balloons and paper streamers added much to the gaiety.

The decorations of the ballroom were simple but tasteful, and the reception hall was decorated with many palms and ferns that formed attractive bowers in which comfortable divans and cushioned chairs furnished delightful places in which to rest and watch the dancers.











M. M. D. Junior Promenade

THE Prom was coming! From the very first day of school, plans had been laid; improvements over past Proms suggested; the date, the 5th of March, selected; the place, the Schenley ballroom, secured; in short, everything that a willing and worthy committee could do had been done.

The Prom was on!! From the opening of the affair with the Grand March to the last strain of the Home Waltz, all cares and worries were buried, all lessons forgotten. Joy reigned supreme.

The Prom was over!!! But never will it be forgotten by any of the Juniors, who, one and all, worked so faithfully to make it the success it was; or by any of the Seniors, who enjoyed so fully the fruits of their hostesses' labor.

When memories of school days and school fun are dimmed, and later and bigger things take the prominent place, the one memory of those fortunate enough to have been there, that will outlast all others, will be that of the Promenade of the Class of '21 of Margaret Morrison.

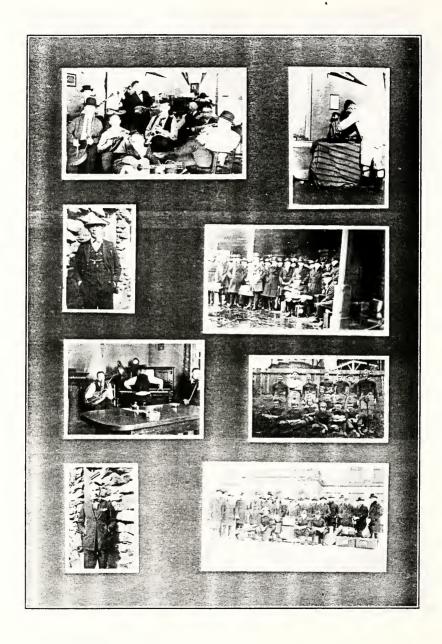
COMMITTEE

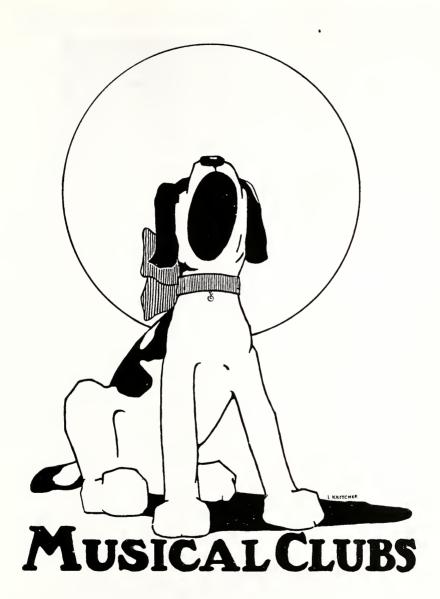


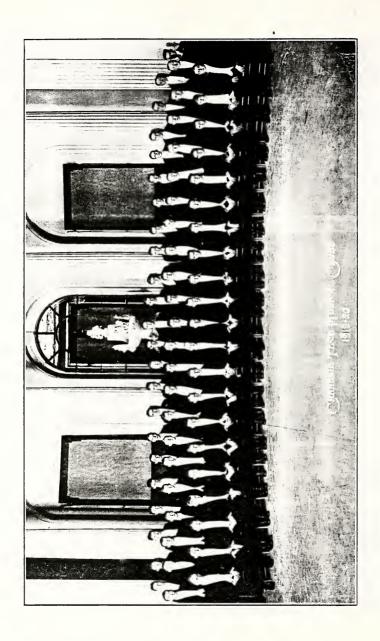














Carnegie Musical Clubs

MEMBERSHIP

EXECUTIVE COMMITTEE

President,	John F. Sweeny,'20	Publicity Mgr.,	G. L. Jordy,'22
Manager,	J. A. Willard,'23	Stage Mgr.,	C. H. Carney,'22
Asst. Manager,	M. H. Mawhinney,'21	Librarian Glec Club,	H. A. Bliss, 21
	Librarian Mandolin Club.	J. A. Hiller,'22	

GLEE CLUB

Director, Robert M. Crawford Accompanist, H. H. Burdick, '22

	FIRST TE	NOR		SECON	ND TEN	OR	
Burch, C. M.	'22	Holmes, F. S.	'23	Blenko, W. T.	'21	Hinkley, T. R.	'21
Dunham, R. B.	'22	Shellenberger, H.M.	'20	Welsh, L. E.	'20	Toler, R. M.	'2 3
Harpel. D. S.	'20	Simpson, P. F.	'21	Seeback, L. G.	'22	Agnew, T. W.	'21
Hart, W. R.	`22	Slattery	'2 3	Carney, C. A.	'22	Gannon, P. C.	'23
Onions, R. C.	`22	Jordy, G. L.	'22	Hott, L.	'20	Burchard, W. K.	'23
	BARITON	E			BASS		
Bliss, H. A. B.	'21	Tucker, G. E.	,55	Micheltree	'22	Sanhill, R. R.	'23
McMahon, J. B.	'21	Schumacker, C. J.	'22	Anthony, B. F.	'21	Pribick, C. C.	'20
Kreidler, R. L.	,50	Walden, W. A.	'20	Kerr, A. J.	'20	Hubbard, J. S.	'21
Infield, D. H.	'22	Turcotte, L. A.	'2 3	Ackerman, D. E.	'2 3	Taucet, W. K.	'20
S	tewart, S. P.	'20		Grice, W. L.	'23	Parsons, E. J.	'23
				Ь	norr, A.	ī.	

MANDOLIN CLUB

Director	egario Scalzo		Student Director, S. F. Koauch, 22				
FIRST MANDOL	IN	SEC. MANDOLI	N	FIRST VIOLIN	Š.	GUITAR	
Craighead, G. F.	'23	Allen, R. E.	`23	Brown, G. H.		Baggaley, R.	'22
Harkness, J. C.	'21	Bollinger, F. E.	'22	Funk, W. C.	.55	Cost, R. W.	'20
Hiller, J. A.	.55	Israel, C.	'22	Heinle, F. J.	'20	Little, C. K.	'20
Knapp, H. C.	'21	Kavanaugh, C. P.	'23	Kovach, S. E.	'22	Mawhinney, W. H	. '21
Kossler, W. J.	'21	Lucas, R. S.	'22	Stickle, J. B.	'23	Sweeny, J. F.	'20
McNamara, P. S	.51	Lurie C.	,55	Wally, F. C	'23		
Osler, G. G.	`23	Meurer, S. T.	'23	SECOND VIOL	IN	FLUTE	
Olsen, V. C.	'2 3	Peterson, C. E.	'21	Beck, A. L.	.55	Carrier, B. R.	'23
Rinehart. F. H.	.55	Rodzinsky, S. M.	.51	Henderson, G. A.	'22	McCurdy, J. P.	'20
Marsteller, L. O.	`23	Robenault, W. T.	.51	Miller, L.	`23	CLARINET	
Russell, E. M.	.53	Kaplan, J. A.	,55	Stroble, C. K.	'£1	Kendrick, A. G.	'23
				Sumpter, J. E.	`23		
MANDO-CI	ELLO		MANDO	OLA		DRUMS	



Smith, G. W.



Taylor, E. C.

Willard, J. A.

THE THISTLE YOUNG



EXECUTIVE COMMITTEE

Home Concert Program

	FART UNE		PART TWO
1.	(a) Amici	C. I. T. Bullard	8. Three for Jack
	GLEE CLUB	Danas	9. A Dream Bartlett Mandolin Club
2.	The Tournament March Mandolin Club	Sulliran	10. The Sweetest Flower that Blows Hawley MALE QUARTETTE
3.	Mary's Little Wise Man GLEE CLUB	Catter	11. Minuet . Beethoven MANDOLIN CLUB
4.	Reading Mr. J. A. Willard	Selveted	12. Laughing Song Kratz GLEE CLUB
5.	Blues Banjo Quintette	Selected	13. Selection from "What's the Odds" — Tilzer— Mandolm Club
6.	Solo Voice	Selected	14. (a) Recessional DeKoren-Kipling
7.	The Golden Scepter Overture	R Schlepegrell	(b) Alma Mater . C. I. T. GLEE CLUB







The Fifteenth Season

THE keynote of the Musical Clubs' spirit for the past season was struck at the initial tryouts in October, when one hundred and fifty men put in their appearance. All of these men were mighty good Musical Clubs' material, and it was the regret of the directors that they were not authorized to choose two clubs instead of one. The two clubs wasted no time, but started in on a severe period of training for the commencement of the season with a zest that augered well for the management's cherished hopes. A very delightful smoker was given in order that the men might become better acquainted, and was enjoyed by all.

During the months of December and January, concerts were given at Mayview, East Liberty, Wilmerding, and Greensburg. These preliminary concerts had not been wasted. On February eleventh the clubs started on one of the most enjoyable trips taken within the memory of any of the veterans. This trip included Erie, Youngstown, and Akron, and the clubs have nothing but good to say of the wonderful spirit displayed by audiences in these places. Following several more local concerts, the Fifteenth Annual Home Concert and Ball was given at Carnegie Music Hall and Syria Mosque. A large and appreciative audience heard the Home Concert and it was largely due to their co-operation that the concert was so enjoyable. In a word, Carnegie Tech spirit presided over the events of the evening. Following the Home Concert were more concerts, the principal ones being those at Pennsylvania College for Women, Latrobe, and Allegheny.

In conclusion, the Musical Clubs wish to formally express their appreciation for the patience and loyalty of the two directors—Signor Gregario Scalzo, Director of the Mandolin Club, and Mr. Robert Crawford, former Glee Club star and now Director of the Glee Club. Too much credit cannot be given to these expert leaders, and the members of the Musical Clubs unite in thanking them for their services during the past season.





THE THISTLE YAYAYA



	OFFICERS	Saxophones
DOMINIC CAPUTO H. A. B. Bliss .	Director	H. W. Bryan D. H. Infield A. Collins M. E. Van Sickle
A. Kendrick .		Piccolos
J. J. Rudisill .	. Secretary and Treasurer	J. D. Grassel J. S. Wood
H. G. CULIN	Librarian	Bass
E. C. TAYLOR .	Business Manager	J. J. Rudisill G. C. Smith
I	PERSONNEL	Baritone
	Cornets	H. A. Bliss F. O. Stebbens
O. Aton	P. KILBOURNE	J. F. REPLOGLAN
M. H. Baney	J. S. Konnerth	Trombones
R. Dunram	S. Parembka	E. H. FLOYD L. DE PREFONTAIN
J. F. Gloecrner	J. Stevenson	e p
	Clarinets	Snare Drum
R. W. Arnold	F. Knowell	H. G. CULIN E. TAYLOR
A. C. Carrao	C. Peterson	Bass Drum
A. E. Horn	A. H. Prey	E. Wendels
A. Kendrick	K. L. Schnell	L. WENDELS
	Altos	Cymbals
D. Duncan	W. ROBENAULT	H. RINERARDT







BAND OFFICERS

The Carnegie Tech Band

The band has been placed under the supervision of the Division of Arts this year. It has been done only at a great expense by the Student Activities Board.

Private instruction is given to every man. Every instrument is furnished by the school. Never before have such inducements been offered to band-men.

The band made several extensive trips during the year, the longest being the Cornell Football trip. No man who took this trip, will ever forget the times on the "Constantine", and the way that band did play! Another excursion was made down to W. & J.





THE THISTLE XXXXXX



Margaret Morrison Musical Club

HARVEY GAUL
JEAN EAKIN
MARY ZAROBSKY
MARION McCOMBS
HELEN HESTER
LENORE DAVIS

Director Manager Assistant Manager Secretary-Treasurer Librarian

Accompanist

MARY BECHTEL MARY HICE BETTY LAUGHLIN BESSIE MURPHY MARION MCCOMRS DOROTRY TURKLE

MIRIAM ARMOUR BARRARA ENDRES HELEN LEWIS PEARL OBENOUR MARGARET SMITH SECOND SOPRANOS

SARAH HENOERSON

ELEANOR KERR
FLORENCE LUTZ

LOIS MCCOMB

GLADES RAMEO

MAND ZAROBSKY

MAND ZAROBSKY

FIRST SOPRANOS

THELMA AOAMS FRAVEES BONNER
CHARLOTTE KARLER MARY LOUISE MCCAUGREY MARY MCCLOSKEY
DOROTHY PETGES WILLA PICKEDING
FRANCES ROBERTS RUTH SCHEKK
MARGARET SMITH
ELIZABETH WRIGHT

RUTH SCHENK
VICTORIA VODILA

JEAN EAKIN
MARY WALKER

FIRST ALTOS

HELEY DOVERSPORE MARGARET KIMMEL DOROTHY MONG GLADYS RICHMOND MABEL SNYDER

HELEN HESTER
SECOND ALTOS

RHORIE McCLOSKEY JOSEPHINE WHITNET







The Stringers

Have you ever heard the "Stringers"? Or rather the "Springers"! That was a likely mistake the cheer-leader made, for they sure did "spring". They made their debut at General Assembly on January 28th, and evidently satisfied their audience. Talk about jazz boys! Why, when they start ragging some of their music at Monday afternoon practice, they're simply irresistible! And when they wind up with some of their "sob-stuff", as Mr. Gaul puts it, the very hardest Maggie Murph is moved to tears. Three cheers for the "Stringers"—let's go!



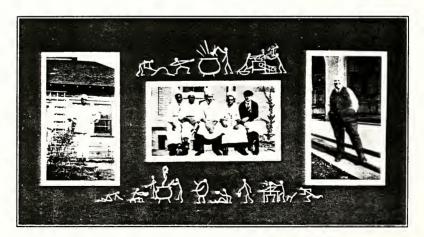




THE THISTLE YEYEY

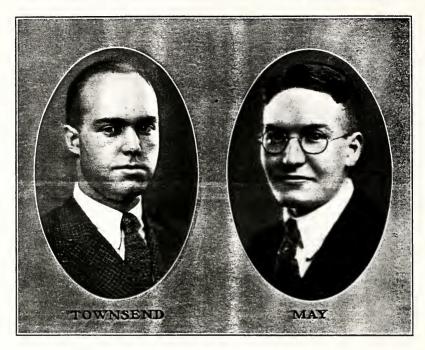












1920 Thistle Board

RICHARD E. TOWNSEND ALBERT C. MAY Editor-in-Chief Business Manager

Art Editors

ASSOCIATE EDITOR Mary M. Danley

MARY FRANCES MURIDOUR LAWRENCE KRITCHER C. T. MCCLEAN JAMES J. RUDISHL. R. F. WARNER EDITH A. LAUGHIAN C. B. SCHMIDT R. D. FELTYBURGER LUTTHER S. LASHMUT L. R. NUSHAVAN LOIS COCHRANE J. MARGARET GRIFFIN OLGA KIEPER FRIDBERICK W. AGNEW JOHN KEELAN F. H. FANNING ROSANGOND BRICCIC CREEK R. SPRICHER

Sales Manager
Photographic Editor
Assistant Photographic Editor
Assistant Photographic Editor
Athletic Editor
Assistant Athletic Editor
Classes—Arts
Activities—Arts
Organizations—M. M.
Classes and Darms—M. M.
Classes and Darms—M. M.
Segunizations
Advertising Manager
Science Night Representative
Arts Night Representative
Arts Night Representative
Freedity Advisor









The Tartan started the present school year with everything set for a good year. Everything went well, and again the Tartan has set a good mark for other activities to follow.

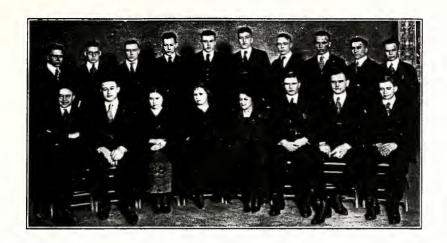
The space for news was limited on account of the very high price of printing and engraving. The result of this high price of printing was seen in the fact that it was necessary to run too much advertising in order to make the *Tartan* a self-supporting activity. The policy of the paper this year has been to boost student activities and to encourage all things that foster true Tech Spirit. Whatever may have been said about the *Tartan* must stand, but certainly the staff has done its best, and it is hoped that the students in general will co-operate in making it a bigger, better and more "newsy" paper next year.







THE THISTLE XXXXXX



The Tartan Staff

LEROY E. EMERICH	. Editor-in-Chief Business Manager
EDITORIAL Managing Editor L. K. Paquin Assistant Managing Editors C. L. Lake F. I. Smith News Editor J. T. Ames Associate News Editor W. D. Hall Athletic Editor	School Editors MARGARET J. GRIFFEN J. K. W. MACALPINE J. J. RUDISILL T. R. HINCKLEY Other Assistants L. A. McCardell Arthur Lubin J. R. Parrox Gertrude Baton Margaret Stolzenbaugh Adele Gumbert Olga Kiefer
G. R. Goodrich Assistant Athletic Editor Fred L. Knowles	BUSINESS STAFF D. A. Sillers Wm. Obenour



Circulation Manager

H. G. Atchley



Advertising Manager

M. I. Cohen

appet

Just after Peter Piper picked his peck of prickly peppers, and the Ragged Rascal ran 'round the rugged rock, and the Cabbage Cook cleaned the calloused crockery, and the Perfect Plebe proposed to Pretty Pansie, and Savage Science sang to Sweet Salome, after Idle Industries incurred intense Intolerance and Drear Design doled out the deadly drops, then Artful Arthur aimed his ample apple with a wobbling wily withering wing. When football fans fared fondly frantic, when winter's wares were worn without a whimper and the sleet and slush slid slowly thru the stolid student's Stetsons, when the fat and freakish females galloped gladly in galoshes, then the gawkish grinds ground grimly thru the trying tempting tests. When the blooms burst back to blossom and the lonesome lover learned of Leap Year, then the scared Senior sought sliderule safely. Thru all these things and more unmentioned, Puppet's smile was never wan.







THE THISTLE YOUNG



PUPPET STAFF

ASSOCIATE STAFF

W. J. PERKINS T. S. REPPLIER D. F. CASSIDY W. J. REILLY

BUSINESS STAFF

G. D. Martin . Circulation Manager J. G. Byler Irving King R. E. Townsend

ARTISTS

MILDRED FLOYD
HARRIET HYDE
J. W. FRITZ
H. STEDFELT
L. STULTS
ROBERT DAKE
A. B. McSwigan — Contributing Artist











STUDENT GOVERNMENT





Board of Student Activities

The Board is a branch of Student Government, its function being to supervise the managing and financing of various recognized non-athletic activities. These include the Tartan, Tristle, Musical Clubs, the Band, and the Carnegie Union. All managers of these activities must present monthly reports covering their progress and finances.

The membership of the Student Activities Board is so chosen as to make it as truly representative as possible. It is believed that only through such a board can the activities of our institution be developed to their fullest possibilities.

PERSONNEL DEAN TARBELL, Faculty Adviser

SENIOR MEMBERS

CONRAD A, STONE, Science, President WM. H. OAKLEY, Industries C. E. SILLING, Arts

HAZEL C. SCHAFFER, M.M.C.C., Secretary

NIGHT SCHOOL

J. E. Dobson, Science F. C. Wilharm, Arts JUNIOR MEMBERS

LUTHER LASHMIT, Arts C. B. SCHMIDT, Science, Treasurer HARRY C. HAMMANN, Industries, Vice-President SYLVESTER WILLIAMS, Science MAHGARET GRIFFIN, M.M.C.C.

ALUMNI MEMBERS

James Sphague, Science M. Sadler, Industries Wm. King, Jr., Arts Miss Elizabeth Kelly, M.M.C.C.







The Student Council

The Student Council, which is a representative body of the four schools, is a governing board for the students, and acts on all matters pertaining to student welfare. It consists of eleven members—the President who is elected from the four schools; two representatives from each school; the President of the Senior Class and the President of the Senior the Activities Board and the President of the Athletic Association.

The council has had many problems of reconstruction and recognition. So far this year, plans have been made for a Home Coming Week to be held in May, and arrangements for Commencement Week are well under way. Monthly mass meetings are held, conducted by the council, at which time appropriate programs are rendered.

PERSONNEL

James W. Batman, Industries Gilbert T. Heddaeus, Industries Harriet Stone, M.M.D. Agnes Piper, M.M.D.

W. H. Oakley, Industries J. D. Beatty, Science Grant Stone, Science President Vice-President Secretary-Treasurer Recorder

H. F. Bremmer, Arts
M. E. Green, Arts
C. A. Stone, Students Activities Board

R. W. Schemertz, Athletic Association







Student Senate—M. M. D.

The Student Senate of Margaret Morrison has become stronger each year since its establishment in 1913. The senate has jurisdiction over the conduct of the students as far as it is connected with the school, and has the power to enforce the penalties which it has recommended to the Faculty. To be enforced, these penalties must be ratified by the director.

The senate consists of officers elected by the student body of M.M.C.C., representatives elected from the four classes, the S. I. V. Class, and the presidents of the dormitories.

OFFICERS AND MEMBERS FOR 1919-1920

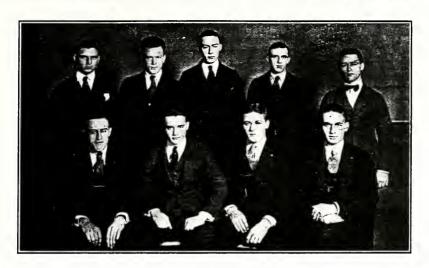
							President
MARY BECHTEL .							Vice-President
MARGARET STOLZENBAC	R						Secretary
Agnes Russell							Treasurer

BARBARA ENDRES, Senior Representative MILDRED SPENCER, Junior Representative HELEN RIED, Sophomore Representative

LUELLA SMITH, Mellon Hall and Annex ORAL HEPBURN, Forbes Hall JANET RUTHERFORD, Woodlawn Hall, Section 1 WILLA PICKFORD, Freshman Representative OLGA KIEFER, Woodlawn Hall, Section 2







Student Senate—Science

The Science Student Senate, the Student Governing Board of that school, was organized in the year of 1916-1917 for the purpose of furnishing a means of general regulation of student conduct, Freshman regulations, buletin boards and club room. Much has been done this year toward instilling the old-time spirit into the Freshman, a thing which was so lacking, due to force of circumstances, during the war.

PERSONNEL

Seniors
G. C. Stone, President

M. A. Fair. Treasurer J. F. Giffen

J. D. Beatty E. H. Pafenbach

Sophomores

H. D. Skyrm W. B. Cunningham G. W. Curtis

Juniors

C. B. Schmidt, Vice-President
L. E. Hawkins, Secretary F. S. Bloom

E. A. BUTTS

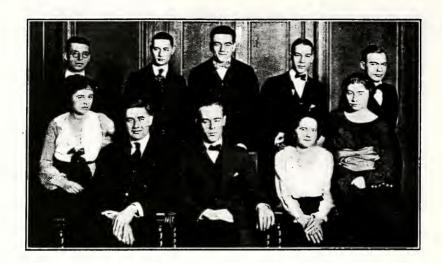
Freshmen

G. F. CRAIGHEAD





THE THISTLE YEYEY



Student Senate—Arts

The Senate of the Division of the Arts is the judicial branch of the Student Government Organization. When created a number of years ago it was vested with executive and judicial authority, but has since cast aside the former, owing to the creation of other bodies upon which this duty has fallen. It acts as a medium between the Faculty and the student body, and makes and transfers suggestions to both. It decides all questions of violations of school laws and also rules on all questions not fully covered by them.

The senate is made up of one person elected from each class and one from each department at large. Those departments having women students are required to have at least one woman on the senate.

M. EDWIN GREEN STANLEY P. STEWART ELLEN B. CROWE JOHN G. TODD

> J. N. Franklin A. A. Schoepf Alexander L. Buchanan

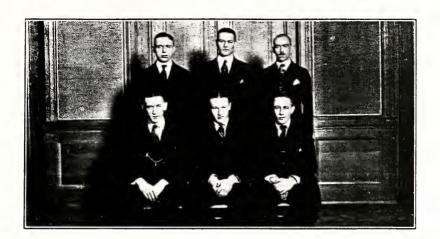
CHARLES KRANE

President Vice-President Secretary Corresponding Secretary

MARY F. MURDOCH EDWIN M. STULTZ VIVIAN RUSE







Executive Council—Industries

The Executive Council of the Division of Industries consists of the officers of the assembly and the presidents of the classes. This body devises and enforces the plans for the betterment and promotion of the social and scholastic welfare of the students of this division and also has charge of the weekly assemblies.

The present council has started a movement which will probably terminate in the adoption of a new "Alma Mater" by the Institute Student Council.

PERSONNEL

W. H. OAKLEY

H. C. HAMMANN

H. W. Lyxx

W. G. PENNYPACKER

G. T. HEDDAEUS

H. C. Hammann

A. W. Kann

S. P. SMITH H. C. HAMMANN

W. H. OAKLEY

President of Assembly
Vice-President of Assembly
Secretary of Assembly
Treasurer of Assembly
President of Senior Class
President of Junior Class
President of Sophomore Class
President of Freshman Closs
Representative to A. B. C.
Representative to S. A. B.













Alumni Federation

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Division of Science and Engineering

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G. L. Tilbrook, '15

W. W. POWELL, '13

Margaret Morrison Division

MARION BURNS, '11 HELEN ANDERSON RUSH, '10

RACHEL BEATTY, '18









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OFFICERS

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SUE SMITH, '17						First Vice-President
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Edna C. Smith. '09)					Sccrctary-Treasurer

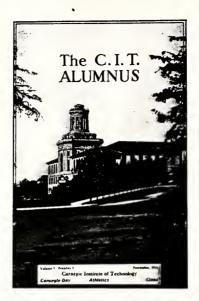
EXECUTIVE COMMITTEE

Gail Sellers, '17	GENEVIEVE CUSHWA, '12
RACHEL BEATTY, '18	Mary Craighead, '11
ELINOR MELLON, '19	HELEN STEWART, '11
(The officer are manhor of this	ittaa)









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BUFFALO-Secretary-D. A. Curtis, 176 Maple St., Buffalo, N. Y.

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DETROIT-Secretary-L. L. BEEKEN, care of Crescent Pump Co., Detroit, Mich.

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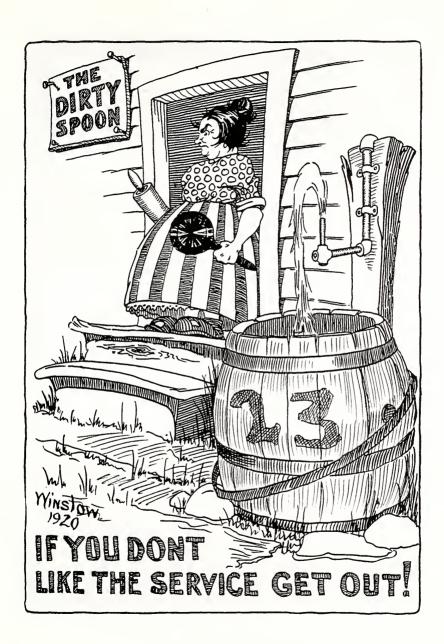
Secretary-Albert E. Ball, 626 Wynnewood Road, Philadelphia, Pa.

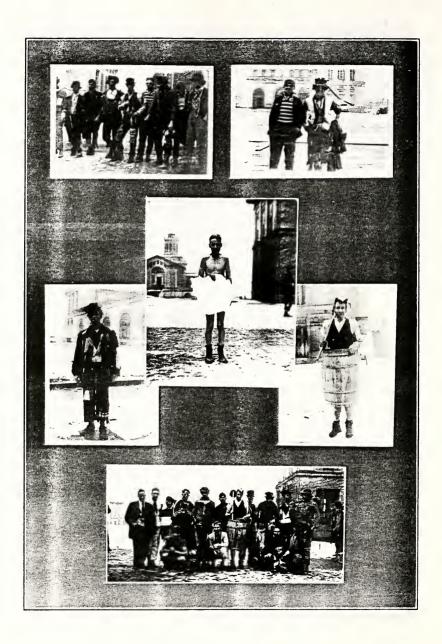
YOUNGSTOWN-President-J. C. Siegle, 1354 Elm St., Youngstown, Ohio Secretary-G. W. Topp, 249 Redonda Road, Youngstown, Obio

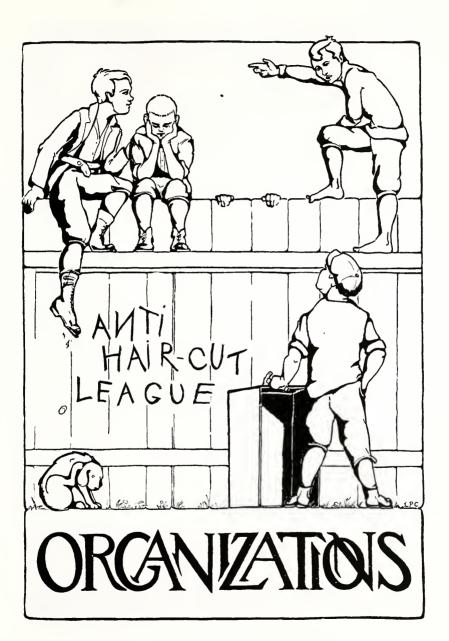














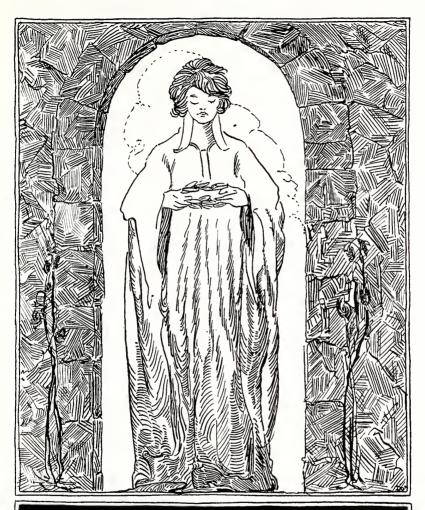
Honor Societies

TAU BETA PI
ALPHA TAU
TAU SIGMA DELTA
THE DRAGON
DELTA SKULL
LAWTOCHFRARIE
ALPHA ALPHA NU

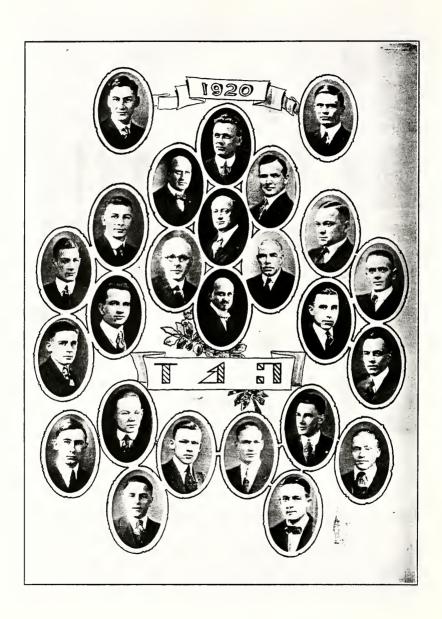








HONOR SOCIETIES





Tau Beta Pi Fraternity

Faculty Members

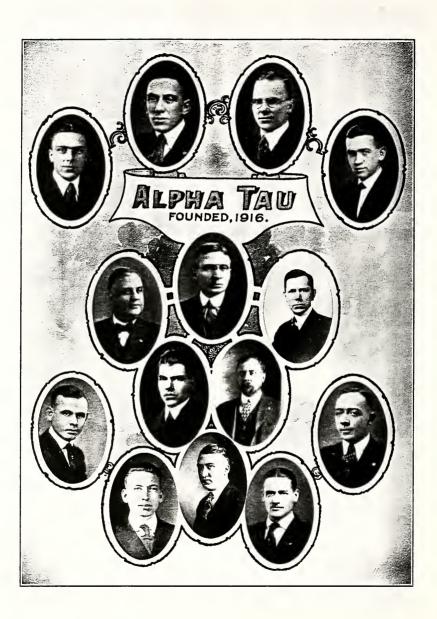
ARTHUR ARTON HAMERSCHLAG.	Honorary Pennsylvania Gamma
WILLIAM ELTON MOTT	Honorary Pennsylvaina Gamma
WILLIBALD C. L. TRINKS	Honorary Pennsylvania Gamma
FRED CRABTREE	Honorary Pennsylvania Gamma
JOSEPH HIDY JAMES	Honorary Pennsylvania Gamma
ALLEN HOLT BLAISDELL	Maine Alpha
Franklin Allen Simmons .	Massachusetts Alpha
FRANCIS MICHAEL McCullough	Honorary Pennsylvania Gamma
HARRY SLOAN HOWER	Honorary Ohio Alpha

Undergraduate Members

EDWARD F. HIRSCH KENNETH KINGSLEY KNAELL EDWARD GUTHRIE STOY ARTHUR JOHN KERR CONRAD AUGUST STONE FRANK IRWIN LAWSON HARRY DOUTHETT KRUMMELL RUSSELL KENNETH LEE LAURENCE H. HALE GILBERT CHURCH CLARK PHILIP CARL VETTER JOHN WALTER TOWNS TERRENCE WENDELL ALLSWORTH WILBUR CARL SEABRIGHT E. HOWARD PAFENBACH CHARLES JOSEPH CODE CLARENCE ROBERT DOBSON GEORGE CONSTANTIN BALAURIE









Alpha Tau Honorary Fraternity

Honorary Members

CLIFFORD B. CONNELLEY

JOHN T. MORRIS

FRED J. HARTMAN

Faculty Members

Professor C. G. Dunnells

Professor R. B. Leighou

Professor C. C. Leeds

Professor R. J. Peters

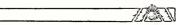
MR. HARRY L. GAGE

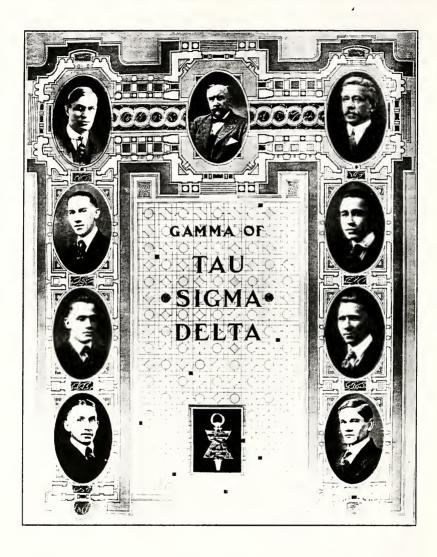
Student Members

MYRON F. BARRETT
JAMES W. BATMAN
GILBERT T. HEDDAEUS
LAWRENCE DOTTERWAY
PAUL MARCEAU
HARRY MOORE

HARRY C. HAMMANN RAYMOND F. WARNER JAMES J. RUDISILL R. T. WHITNEY RICHARD W. ARNOLD RAYMOND T. JUNKINS









Tau Sigma Delta

HONORARY FRATERNITY IN ARCHITECTURE AND ALLIED ARTS
FOUNDED AT UNIVERSITY OF MICHIGAN, 1913

Honorary Members

DIRECTOR E. R. BOSSANGE PROFESSOR H. STERNFELD Professor H. S. Dornberger Mr. Henry Hornbostel

Active Members

PHILIP FRIEDMAN

C. E. SILLING

LUTHER S. LASHMIT

HARRY F. BREMMER

ROBERT BOWERS

K. B. Snow, Affiliate Member

ROLL OF CHAPTERS

ALPHA					University of Michigan
Beta					University of Minnesota
Сні					University of Illinois
DELTA					Syracuse University
Epsilon				. 1	University of Pennsylvania
GAMMA			(arnec	ie Institute of Technology





THE THISTLE XXXXXX



The Dragon

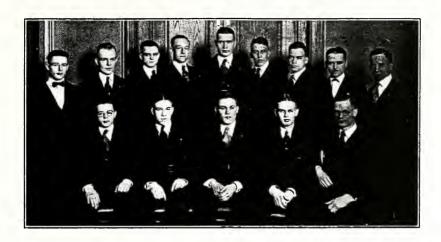
- L. DALE AUL
- J. D. BEATTY
- N. J. CAMPBELL
- G. C. CLARK
- M. A. FAIR
- E. F. Hirsch
- P. P. MARSHALL
- E. H. PAFENBACH
- G. C. STONE
- J. F. SWEENY

- J. W. BATMAN
- H. F. Bremmer
- H. F. CAREY
- J. P. Davis
- M. E. GREEN
- C. K. LITTLE
- J. L. MILLER
- S. P. STEWART
- E. G. Stoy
- M. F. YELLE





THE THISTLE YES



Delta Skull

HONORARY SOCIETY OF THE JUNIOR CLASSES OF THE DIVISIONS OF SCIENCE AND THE ARTS

Junior Members

	Santor Members	
F. G. Bloom	L. D. PITTS	A. J. Hanks
B. H. Dierks	C. B. Schmidt	C. A. Maurer
M. S. GARE	J. G. Todd	H. G. Nichol
A. F. LEETE	G. R. Brandin	N. P. RICE
C. T. McClean	R. D. Foxon	S. H. Stupakoff

Senior Members

L. D. Aul	G. C. Stone	E. F. Hirsch
M. A. FAIR	J. F. SWEENY, JR.	J. L. MILLER
M. E. GREEN	M. F. YELLE	R. M. Russell
C. K. LITTLE	J. D. Beatty	E. G. Stoy
E. H. Pafenbach	J. F. GIFFEN, JR.	R. W. WELTER







Lawtochfrarie

SOPHOMORE HONORARY SOCIETY

Lawtochfrarie, the Sophomore Honorary Society of the Science School, was formed by a group of Sophomores in the spring of 1915. The purpose of the society is to promote new ideals that would be of benefit to the Institution, and also to give recognition to those most prominent in student activities during their Plebe year.

The membership is limited to ten men, they being elected the latter part of their Plebe year, and remaining active throughout their Sophomore year. They are chosen from the men who achieved prominence in athletics, school activities, and scholarship.

Active Members

CHARLES A. BLESCH GEO. W. CURTIS JOHN G. KEELAN HAROLD D. SKYRM HARRY H. WADE C. J. COPLEY
ROY J. DOUGHERTY
G. DONALD MARTIN
PAUL J. UNSICHER
E. J. WEISS









Alpha Alpha Nu

Charter Members

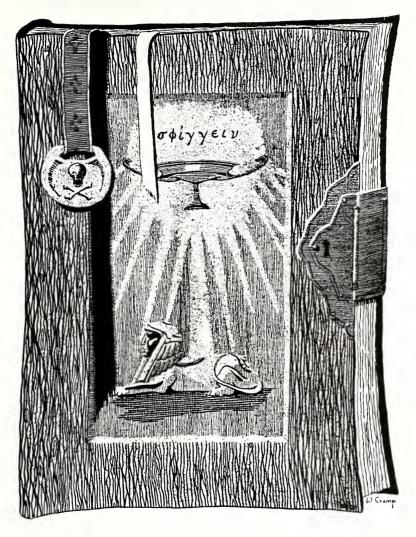
GILBERT C. CLARK LEROY E. EMERICII WILLIAM H. OAKLEY WILLIAM M. BURKE RICHARD E. TOWNSEND WILBUR C. SEABRIGHT HENRY F. SCHEETZ, JR. FRED I. SMITH

Alpha Alpha Nu was organized in November, 1919. Its purpose is to honor men who have done notable work on the Thistle, Tartan, or Puppet, and who have identified themselves with other activities.

The state of the s







National Frakernities

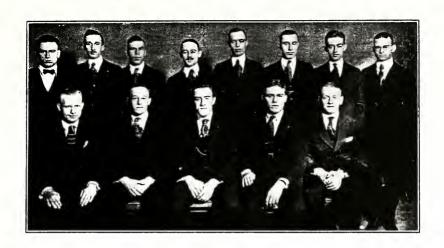


National Fraternities

THETA XI
SIGMA NU
DELTA UPSILON
SIGMA ALPHA EPSILON
PHI EPSILON PI
ALPHA KAPPA PSI







Interfraternity Council

OFFICERS

	CLARENCE B.	SCHMIL	T.						. Vice-President
	GILBERT C. C	CLARK							. Secretary-Treasurer
			ì	rate	rnity .	Repres	sentati	ives	
Theta	Xi .								JAMES L. MILLER EDWARD G. STOY
Sigma	Nu								MARCUS A. FAIR JOHN F. SWEENY, JR.
Sigma	Alpha Epsilon					-			James F. Giffen, Jr. Louis T. Barry
Sigma	Rho .								MARTIN W. POHLMEYER CHARLES J. COPLEY
Xi Sig	ma Upsilon								DANIEL H. BODIN GILBERT C. CLARK
Woodl	awn Club								CLARENCE B. SCHMIDT RUSSELL M. RUSSELL
Tau G	amma Phi						•		LIVINGSTON DISBROW JOHN O. CAHILL



MARCUS A. FAIR .



President

Pi of Theta Xi





Theta Xi

ROLL OF CHAPTERS

ALPHA Rensselger Polytechnic Institute

Beta Sheffield Scientific School, Yale University

Gamma Stevens Institute of Technology

Delta Massachusetts Institute of Technology

Epsilon Columbia University
Zeta Cornell University

ETA Lehigh University

THETA Purdue University

IOTA Washington University

KAPPA Rose Polytechnic Institute

LAMBDA Pennsylvania State College

Mt Iowa State College

Nu University of California

XI State University of Iowa OMICRON University of Pennsylvania

P1 Carnegie Institute of Technology

Rно University of Texas

SIGMA University of Michigan

TAU Leland Stanford Junior University

Upsilon University of Washington

PHI University of Wisconsin









Pi Chapter of Theta Xi

Fratres in Facultate

DIRECTOR WILLIAM ELTON MOTT PROF. ALEXANDER J. WURTS PROF. HARRY SLOAN HOWER HOWARD ALBERT VIERHELLER

Fratres in Collegio

JOHN DAVID BEATTY, '20 DOANLD BENNIX GAWTHROP, '20 ADRIAN BLOOM KREBS, '20 DAVID BLAIR SHILLIDAY, '20 EDWARD GUTHRIE STOY, '20 Worley Perrine Albaugh, '21 HENRY EARL BROMER, '21 PAUL HAMILTON DICKEY, '21 ROY DRAPER FOXON, '21 ALFRED WILLIAM GRIEB, '21 EDWARD JOHN ISHERWOOD, '21 LOUIS DAVID PITTS, '21 JOHN GRAY SHILLADAY, '21 WILLIAM HOWARD STURGEON, '21 ROY WELTER, '21 D'ARL GEORGE BASH, '22 ALBERT ROGER CHASE, '22 JOHN GERARD KEDLAN, '22 HERMAN CRAMER RIBLETT. PAUL JOSEPHUS UNZICKER, '22 HAROLD KNIGHT WEISS, '22 KERSEY RINGGOLD DEVER, '23 CHARLES NEVIN HARWOOD, '23

HOMER FRANK CAREY, '20 EDWARD FRED HIRSCH, '20 JAMES LEDLIE MILLER, '20 JULIAN PRICE STAPLES, '20 MATTHEW FERDINAND YELLE, '20 FREDERICK STURATE BLOOM, '21 GEORGE EDWARD DARDEN, '21 THOMAS MOORE FELTON, '21 PAUL DEAL GOOD, '21 HENRY CHARLES HENDERSON, '21 FRED ALEXANDER NICHOLSON, '21 ERNEST JUSTIN REHM. '21 SEMON HENRY STUPAKOFF, '21 BENJAMIN SHIELDS URMSTON, '21 Paul Joseph Baldwin, '22 ROBERT HANTON CAREW, '22 ALFRED DALE JENNER, '22 GEORGE McELWAIN, '22 RAY COLLINS SIGGENS, '22 HARRY THOMAS WARD, '22 GEORGE TARRY BRYSON, '23 CHESTER ALEXANDER EMERY, '23 SIDNEY KEELER, '23

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SMITH FRYE, '23

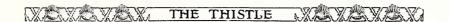




THE THISTLE XXXXXX



Sigma Nu



Sigma Nu

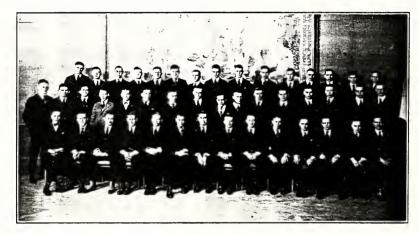
ACTIVE CHAPTER ROLL

Вета	University of Virginia	GAMMA THETA	Cornell University
EPSILON	Bethany College	Самма Іота	University of Kentucky
ETA	Mercer University	GAMMA KAPPA	University of Colorado
Тнета	University of Alabama	GAMMA LAMBDA	University of Wisconsin
IOTA	Howerd College	GAMMA MU	University of Illinois
Карра	No. Georgia Agriculture College	GAMMA NU	University of Michigan
LAMBDA	Washington and Lee University	Gamma XI	Missouri School of Mines
Mu	University of Georgia	GAMMA OMICHON	
Nu	University of Kansas	GAMMA PI	University of West Virginia
Xı	Emory College	Gamma Rho	University of Chicago
Pı	Lehigh University	GAMMA SIGMA	Iowa State College
Rно	University of Missouri	GAMMA TAU	University of Minnesota
SIGMA	Vanderbilt University	GAMMA UPSILON	University of Arkansas
Upsilon	University of Texas	Самма Риг	University of Montana
Рні	Louisiana State University	Gамма Сні	University of Washington
Psi	University of North Carolina	GAMMA PSI	Syracuse University
Вета Вета	De Pauw University	DELTA ALPHA	Case School of Applied Science
BETA ZETA	Purdue University	DELTA BETA	Dartmouth College
Вета Ета	Indiana University	DELTA GAMMA	Columbia University
BETA THETA	Alabama Polytechnic Institute	DELTA DELTA	Pennsylvania State College
BETA IOTA	Mount Union College	DELTA EPSILON	University of Oklahoma
Вета Карра	Southwest Kansas College	DELTA ZETA	Western Reserve University
Вета Мг	University of Iowa	DELTA ETA	University of Nebraska
Beta Nu	Ohio State University	DELTA THETA	Lomhard College
Beta XI	William Jewell College	DELTA IOTA	State College of Washington
Вета Вно	University of Pennsylvania	DELTA KAPPA	Delaware College
Beta Sigma	University of Vermont	DELTA LAMBDA	Brown University
BETA TAU	No. Carolina Ag. and Mech. Arts	DELTA MU	Stetson University
BETA UPSILON	Rose Polytechnic Institute	Delta Nu	University of Maine
Вета Ри	Tulane University	Delta Xi	University of Nevada
Вета Сні	Leland Stanford Junior University	DELTA ONICHON	University of Idaho
Beta Psi	University of California	Delta Pi	George Washington University
GAMMA ALPHA	Georgia School of Technology	DELTA RHO	Colorado Agricultural College
С амма Вета	Northwestern University	Delta Sigma	Carnegie Institute of Technology
GAMMA GAMMA	Albion College	DELTA TAU	Oregon Agricultural College
GAMMA DELTA	Stevens School of Technology	DELTA UPSILON	Colgate University
GAMMA EPSILON	Lafayette College	DELTA PHI	Maryland State College
GAMMA ZETA	University of Oregon	DELTA CHI	Trinity College
Самма Ета	Colorado School of Mines	Delta Psi	Bowdoin College
Epsilon Beta	Drury College	Epsilon Alpha	Arizona University





THE THISTLE YEAVEN



SIGMA NU









Sigma Nu

Chapter Roll

W. S. Andrews	J. H. Gordon	R. B. Nation
L. D. Aul	R. H. GWINNER	I. F. NUTTING
C. A. Blesch	G. H. HAYNES	V. C. Olsen
H. A. Bowman	H. R. HILLER	E. B. Patterson
G. A. Brink	F. S. Holmes	F. H. RINEHART
H. C. Brockman	W. R. HOWELL	R. W. Schmertz
N. J. CAMPBELL	A. F. LEET	P. F. Simpson
N. E. CARR	P. P. Marshall	H. D. SKYRM
R. M. Crosby	C. A. L. MAURER	S. P. Stewart
G. W. Curtis	M. H. MAWHINNEY	W. D. Stewart
R. E. DAKE	G. E. Monroe	G. C. Stone
W. E. DAUGHERTY	C. T. McClean	J. F. SWEENY, JR.
C. H. DYER	E. B. McElroy	G. E. Tucker
M. A. FAIR	R. A. McKee	H. H. WADE
F. H. FLOYD	J. F. NATION	W. A. Warrick
I W FRITZ		C G F ZORFI





THE THISTLE YEAVEN



Delta Upsilon





Delta Upsilon

FOUNDED IN 1834 AT WILLIAMS COLLEGE

ROLL OF CHAPTERS

WILLIAMS	Williams College	Wisconsin	Wisconsin University
Union	Union University	Lafayette	Lafayette College
HAMILTON	Hamilton College	Columbia	Columbia University
AMHERST	Amherst College	Lehigh	Lehigh University
Western Reserve	Western Reserve University	Tufts	Tufts College
WESLEYAN	Wesleyan University	DEPAUW	DePauw University
COLBY	Colby College	PENNSYLVANIA	University of Pennsylvania
ROCHESTER	University of Rochester	MINNESOTA	University of Minnesota
MIDDLEBURY	Middlebury College	TECHNOLOGY	Massachusetts Inst. of Tech'gy
BOWDOIN	Bowdoin College	SWARTHMORE	Swarthmore College
RUTGERS	Rutgers College	STANFORD	Leland Stanford Junior Univ.
WASHINGTON AND		California	University of California
Jefferson	Wash. and Jefferson College	McGnl	McGill University
Colgate	Colgate University	NEBRASKA '	University of Nebraska
New York	New York University	Toronto	University of Toronto
MIAMI	Miami University	Cricago	University of Chicago
Brown	Brown University	Ohio State	Ohio State University
Cornell	Cornell University	Illinois	University of Illinois
Trinity	Trinity College	Washington	University of Washington
MARIETTA	Marietta College	PENNSYLVANIA STATE	Pennsylvania State College
Syracuse	Syracuse University	IOWA STATE	Iowa State Col. of Agriculture
MANHATTAN	College of City of New York	PURDUE	Purdue University
MICHIGAN	University of Michigan	Indiana	Indiana University
NORTHWESTERN	Northwestern University	Carnegie	Carnegie Institute of Tech'gy
HARVARD	Harvard University	Kansas	University of Kansas







Delta Upsilon

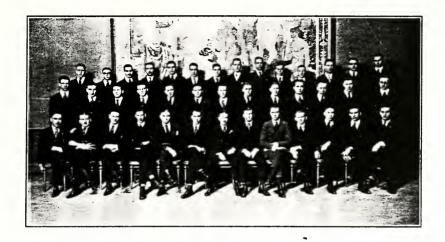
Fratres in Facultate

H. T. R. AUDE DANIEL C. LONG ROBERT A. RUNDLE CLIFFORD G. DUNNELLS CHARLES GOTT EDGAR M. STARR









Delta Upsilon

ACTIVE MEMBERS

Frank I. Lawson, '20 Gilbert T. Heddaeus, '20 Nelson P. Rice, '20 Nelson P. Hawkins, '21 Joseph S. Hubbard, '21 William D. Loulan, '21 Jerome B. McMahon, '21 Hohace G. Nichol, '21 Robert W. Schlumpf, '21 William M. Burke, '22 Ray J. Doherty, '22 Bernard H. Lawson, '22 Arthur A. Neff, '22 Victor H. Stromquist, '22

WILLIAM C. BURCHARD, '23
ALBERT F. EICHHORN, '23
JACK L. JACOBSON, '23
WILLIAM F. KEOUGH, '23
GEORGE WEIDLINE, '23
JOHN A. WILLARD, '23
C. KENNETH LITTLE, '20
NICHLAS HANS MULLER, '21
ALEXANDER J. DREUX, '21
JOHN L. HERRMANN, '21
PAUL L. IRWIN, '21
J. KENNETH W. MACALPINE, '21
FRANK H. MERGER, '21

ALEXIS H. TOSTESON, '22 '

CARL B. REID. '21
LAURIN D. WOODWORTH, '21
JOHN G. BYLER, '22
EVERETT HUGHES, '22
WILLIAM W. MACALPINE, '22
FRED I. SMITH, '22
ELWIN M. STULTS, '22
JOHN VOS, '22
ALLAN CALVERT, '23
ROSS HERTZ, '23
PAUL R. KENNEDY, '23
JOHN M. SMITH, '23
EDWARD L. WEINMAN, '23
MARK L. WRIGHT, '23

Kenneth H. Davis, '22 John D. Evans, '23

PLEDGES

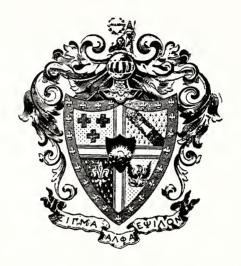
Denton J. Moon, 23

Roger Marshall, *23 Howard G. Whitmer, *23





THE THISTLE



Sigma Alpha Epsilon



Roll of Chapters

ME. Alpha-University of Maine

Mass. Beta Upsilon-Boston University

Mass. Gamma-Harvard University

Mass. Delta-Worcester Polytechnic Institute

Mass. Iota Tau-Mass. Institute of Technology

N. H. Alpha-Dartmouth College

N. H. Beta-New Hampshire College

N. Y. Alpha-Cornell University

N. Y. Delta-Syracuse University

N. Y. Mu-Columbia University

N. Y. Rho-St. Lawrence University

N. Y. Sigma Phi-St. Stephens College

PA. Alpha Zeta—Pennsylvania State College

PA. Gamma-Lafayette College

PA. Delta—Pennsylvania College

PA. Zeta—Bucknell University

PA. Theta—University of Pennsylvania

PA. Sigma Phi—Dickinson College

PA. Chi Omicron-University of Pittsburgh

PA. Omega-Allegheny College

PA. Phi-Carnegie Institute of Technology

N.C. Theta-Davidson College]

N. C. Xi-University of North Carolina

VA. Omicron-University of Virginia

VA. Sigma-Washington and Lee University

WASH. CITY Rho-George Washington University

ILL. Beta-University of Illinois

ILL. Delta-Millikin University

ILL. Theta-University of Chicago

ILL. Psi Omega-Northwestern University

IND. Alpha-Franklin College

IND. Beta-Purdue University

IND. Gamma-Indiana University

Mich. Alpha-Adrian College

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MINN. Alpha-University of Minnesota

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Omo Theta-Ohio State University

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Оню Tau-Miami University

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ALA. Iota-Birmingham-Southern College

Ala. Mu-University of Alabama

Fla. Upsilon-University of Florida

GA. Beta-University of Georgia

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GA. Phi-Georgia School of Technology

GA. Psi-Mercer University

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KAN. Beta-Kansas State College

Mo. Alpha-University of Missouri

Mo. Beta-Washington University

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S. D. Sigma—University of South Dakota

Colo. Delta—Colorado Agricultural College

Colo. Zeta-University of Denver

Colo. Lambda-Colorado School of Mines

Colo. Chi-University of Colorado

Wro. Alpha-University of Wyoming

La. Epsilon-Louisiana State University

La. Tau Upsilon-Tulane University

OKLA, Kappa-University of Oklahoma

Tex. Rho-University of Texas

Ky, Epsilon-University of Kentucky

Ky. Iota-Bethel College

Ky. Kappa-Central University Tenn. Zeta-Southern Presbyterian University

TENN. Eta-Union University

TENN. Kappa-University of Tennessee

Tenn. Lambda—Cumberland University

Tenn. Nu-Vanderbilt University

TENN. Omega-University of the South

Ariz. Alpha-University of Arizona

Cal. Alpha-Leland Stanford, Jr. University

CAL. Beta-University of California

Nev. Alpha-University of Nevada Idaho Alpha—University of Idaho

MONT. Alpha-Montana State College

ORE. Alpha-Oregon State Agricultural College

Ohe. Beta-University of Oregon

WASH. Alpha-University of Washington

WASH. Beta-Washington State College







THE THISTLE YEAR



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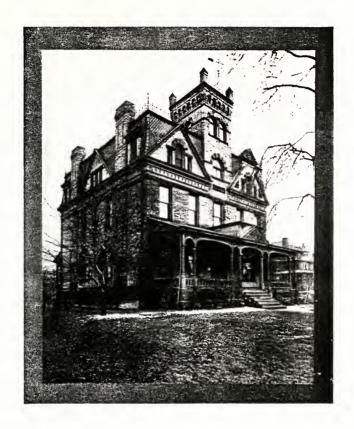
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THE THISTLE XXXXXX





THE THISTLE YEAVEN



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Phi Epsilon Pi

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Epsilon Cornell University

Eta University of Pennsylvania
Theta Pennsylvania State College
Zeta University of Pittsburgh

Iota Dickinson College

KAPPA New York University, School of Law

Lambda Rutgers University
Mu University of Georgia
Nu University of Virginia

XI Georgia School of Technology

Omicron Tufts College

Pı University of Maine Rно Rhode Island State College

SIGMA Brown University

TAU Alabama Polytechnic Institute
UPSILON Connecticut Agricultural College
PHI Carnegie Institute of Technology

CHI Syracuse University





THE THISTLE YEAR



PHI EPSILON PI







Phi Epsilon Pi

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HERMAN GOLDBERG
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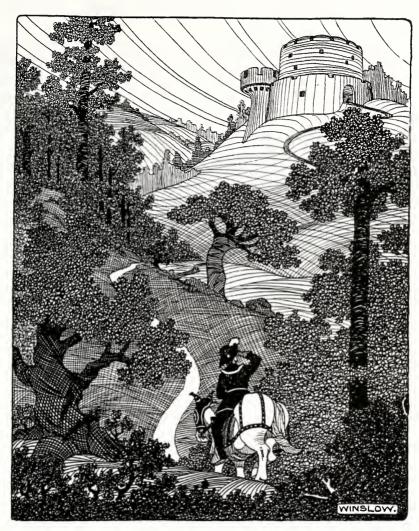
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XI SIGMA UPSILON
WOODLAWN CLUB
TAU GAMMA PHI
OPHELEUM
DELTA EPSILON OMEGA
KAPPA SIGMA RHO
ALPHA PI
SQUARE AND COMPASS CLUB









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Sigma Kho



THE THISTLE



Sigma Rhó

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THE THISTLE YEAR



Xi Sigma Upsilon

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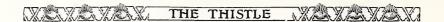
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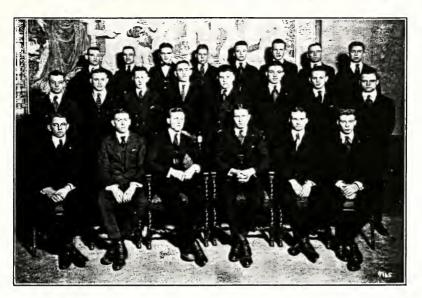




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Woodlawn Club

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Samuel H. Jamison, Jr., '21
Lawrence K. Paquin, '21
Lawrence H. Rank, '21
R. Mirick Russell, '21
Clarence B. Schmidt, '21
Homer M. Sinclair, '21
George W. Smith, '21

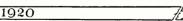
Members

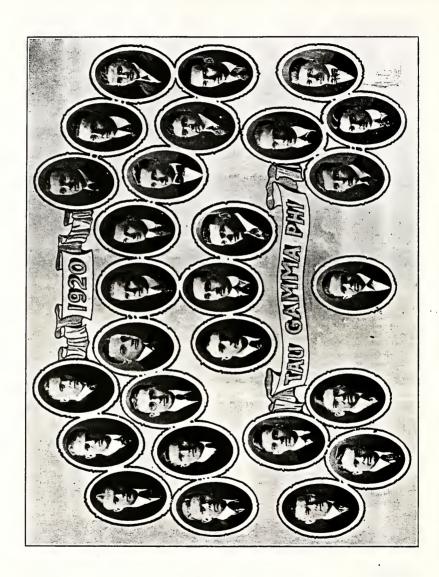
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Joseph T. Ess, '22
Robert C. Gooch, '22
Paul T. Hannen, '22
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William A. McGill, '22
G. Donald Martin, '22
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George M. Winslow, '22
A. Morris Collins, '23
George R. Goodrich, '23
Charles F. Jordan, '23
Charles F. McCormick, '23
Thomas McDonald, '23
Dewey H. Miller, '23

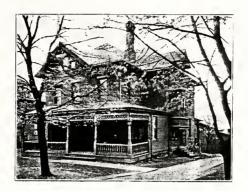
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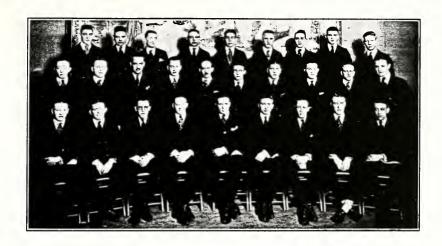




THE THISTLE XXXXXX

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Opheleum Fraternity

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James W. Batman, '20 Harold G. Culin, '20

Paul S. Allen, '23 Stuart P. Smith, '23 C. Park Richardson, '23 Logan T. Johnston, '23







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THE THISTLE XXXXX



Delta Epsilon Omega

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John T. Hoyle

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THE THISTLE YEAR



Kappa Sigma Rho

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THE THISTLE AND YEAR

Alpha Pi

THE THISTLE YEAR



Alpha Pi

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THE THISTLE XXXXXX

Square and Compass Club

THE THISTLE XXXXX



Square and Compass Club

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H. M. McCully

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J. D. MILLER

E. J. NESPER

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R. W. SLEATH

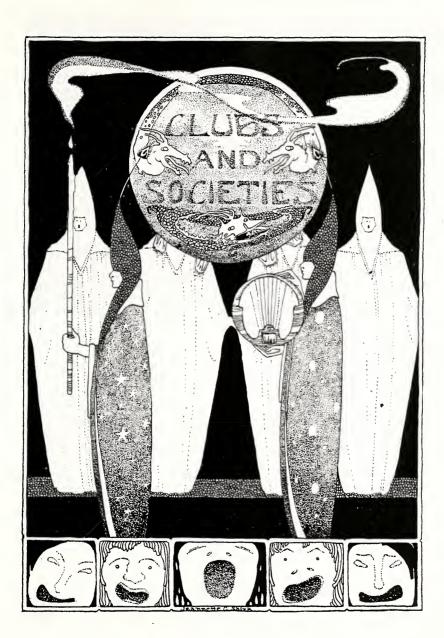
F. A. STARKWEATHER

R. H. TOPPING











The Young Women's Christian Association

The Young Women's Christian Association is the youngest organization in Margaret Morrison, a charter having been granted to it in February, 1918. Despite its youth it has gained power rapidly, so that the membership now includes about one third of the registration of the school.

Its growth and power is manifested in the fact that it has sent its full quota to every Y. W. C. A. Convention which has been held within the last two years, and to which it was entitled representation. Last summer, five girls were sent by the association to the conference at Eaglesmere, Pennsylvania. This conference was of great importance to our organization because of the contact our delegates had with all the great Y. W. C. A. leaders of the East Central Field as well as with girls from all the schools of Pennsylvania and Maryland. From this contact, the girls obtained many splendid plans and ideas for the work of the Y. W. C. A. this year.

In November, the Annual Members' Conference was held at Philadelphia. The annual member of this school was sent to represent not only Margaret Morrison but Pennsylvania College for Women, Thiel, and Westminster as well. Because of the growth of this association, it was decided at the convention that we should be granted a representative every year.

In January, the Student Volunteer Convention will be held at Des Moines. The Y. W. C. A. devised plans whereby our full quota of four students and one faculty member should be enabled to attend. The girls of the entire school, with very little outside contribution, raised sufficient money to send four of the delegates.

Aside from these conventions, our work directly within the school is becoming more clearly manifest and important. Meetings are held once a week; splendid speakers are obtained and delightful programs are rendered. Although the membership does not include the entire school, the Y. W. C. A. has the backing of the entire student body in its large undertakings.







THE THISTLE



M. M. C. C. Guild

With the world-wide peace, the spirit of giving has not ceased at M. M. D. Instead, the Guild, the charitable organization of M. M. D., has had more success this year than usual. The Guild has extended a helping hand to many needy institutions, among which are the Kingsley Settlement House and the Pittsburgh Home for Girls.

The fees from membership, proceeds from an annual dance, and from the Christmas Bazaar, are a few of the ways in which the Guild obtains money for charitable purposes.

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ERMA FRIEDMAN				$Vice ext{-}President$
Mabel Alexander		Sec	cretary	and Treasurer







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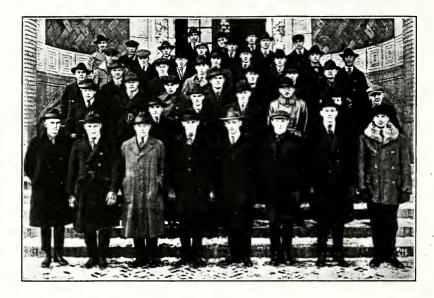
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1. 2. 0.0	ROY WELTER





W.N.H.A.R.J.H.P.G.J.J.S.B.R.R.H.H.



Vol. No Record

ENTERED AS FIRST CLASS MAIL IN THE DEAD LETTER OFFICE

Noted Author Arrested

PROF "POP" HORACE R. THAYER JIM THORP ALIAS "POP"

INSTRUCTOR AT CARNEGIE TECH was arrested for running a gembling joint and indulging in other infamous practices. It oppoors that this other wise upright(!) person was apprehended while conducting a lattery of Stress Problems. The culprit was possing through the class with a number of cords, one of which was drawn by each student. The one drawing the lucky number getting the east problem. We were unoole to obtain definite information as to now much he received for a chance, but we think it was probably down little. We understand that Pop is now out on

FOR BETTER OR FOR WORSE (?) The Bachelor Clubs announce with tears in its eyer the downfall of Mr. Simmons . This columnty accured just prior to the summer comp. On receipt of our letter of condolence he merely said; he was sorry we did not hove enough to eat, because he got all he wonted.

We the present Junior Class teel it our duty to apologize to the public for the lost issue of the Seo Eose, evited by a gong of rough necks now know of the SCHIOT CIVILS.

NEW 5MI. "CHAMPEEN" COMES TO LIGHT AT CIT.

SUMMER CAMP. Prof Thayer sporting world by covering the 5 mi. foor-DOIL COURSE IN 48 min. Those behind noticed several dead

"Doc" Marks rabbits on the road side. examined these rabbits and found they had died from over exertion, trying to keep up with Pop. A strangething upout the race was; offthe Pop started fully clathed, he came in in short ponts.

CAMP NOTES Does everyone know what Indian Turnips toste like? If not air Neol Campbell or any other Sr. Civil.

Some one should remind Bert Munholl that we are now in cider seoson.

Me may not oil understand what Maje Stanton is saying when he speaks French but 50 to 1 he is cussing

Its on ill wind that blons no one good, as Bill Shakes says. Although the cats were damn poorthey brought forth much poetry and musia.



Camp Louise Carnegie

Where did we have to get up at six-thirty, Jump out of bed on a cold, foggy morn— Wait several years for a turn at the washstand, Then while still waiting—hear the old breakfast horn?

Where did we all have to hurry and scurry Up a steep incline, then fight for a seat At a long table, where hundreds were waiting Just for a chance to grab something to eat?

Where did we have to clean up (?) for inspection—Gather our trappings and set out to learn "How to survey in fourteen short lessons"—Till twelve o'clock, then for dinner return?

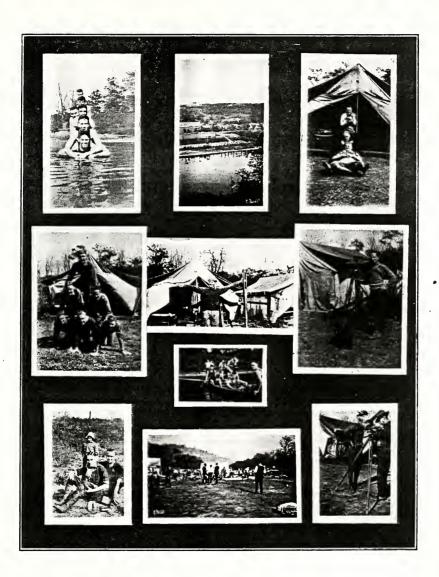
Where did we loaf until one—then set out with A transit, a level, a range pole and chain,—Not stopping (excepting to stall a few hours)—Then prompt at six we'd be eating again.

Where did the beds somersault about midnight? Where'd we eat pie, after "Ginnies" new song? And we'll agree that at "Louise Carnegie" "Them was the HAPPY DAYS"—Boys, am I wrong?

-Cecil Lurie, '21







THE GEAR GROAN

PUBLISHED WEAKLY AND ENTERED AS DRYMATTER UNDER ACT OF JULY 11919 NEWS OF THE JUNIOR MECHANICALS CLASS OF 1919 NOTICE - WHEN YOU HAVE. FINISHED READING, PLACE A 1° STAMP HERZON AND IT WILL BE SENT TO DIXMONT-NO WRAPPING

DECEMBER 1919

10 THE COPY

MECHANICALS BATTLE VALIANTLY BUT COMMERCIALS TAKE 14-0 DECISION

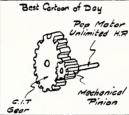
YODER AND NICHOL
PLAY EXCELLENT GAME
SMITH OF BOOKKEEPERS
ALSO STARS

On a fast field with a clear sky overhead and the tang of autumn in the air, another chapter of the Mechanical-Cammercial football classic was fought out again this year.

Both sides uncorked a classy brand and the crowd of enthusiastic fans were agog with excitement from start to finish.

Nichol starred at open field running and got away for several spurts which would make Tom Davies look like a truck horse, and Yader, the big Mechanical end, played a fine game, but was badly injured in the last round, receiving a dislocated shoulder.

F.I.Smith and Copley were the bulwark of the bookkeepers and were hard men to stop.



OH - RED

Prof. Riggs I don't see how that pulley could ratate with 800* acting on each side.

Anthony Well it says its an idle pulley, doesn't it?

Prof. Riggs Yes but it's making 200 revolutions a minute.

PROF. TRINKS, having attended the Sophamore banquet, is said to be in favor of a class in Rotary and Reciprocating Motion with Labratory periods scheduled in the Academy.

This marks a distinct advance in the progress of scientific research and would greatly increase the asthetic value of our engineering courses.

Coach Hazel refereed and aside from the difficulty in hearing signals proved very satisfactory.

The head linesman, who is nameless here, was a plebe and matched his green hat to perfection.

The girls in Mellon Observatory watched the game thru opera glasses. Their cheers were a great inspiration to such fastidious players as Ravenscroft, who spat listily before each play and chewed his way thru the game.

LOST & FOUND

Al's chattels

Shorty's line

Dizzy's head

Ravey's Sleep

REPORT OF BUREAU OF HEALTH FOR YEAR 1919.

Ravenscraft - Sleeping Sickness

A.C May - Sore Throat

Safety First - Black Eye
Rodzinsky - " "

THE THISTLE



The Carnegie Mechanical Engineering Society

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J. F. SWEENY
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Sophomores C. G. HAUSER L. C. HEWITT G. A. HENDERSON



R. D. Jenkins

L. GRIEBLING C. H. GRIMM



THE THISTLE XXXXX



The Commercial Club

The Commercial Club, as now organized, was founded last year, being an outgrowth of the old Fulcrum Club. The object of the club is to keep its members up to date on current business and engineering practice. This is done by holding smokers from time to time, and having addresses by prominent professional men—lawyers, engineers, advertising specialists and other men whose fields of endeavor in the business world are of peculiar interest to commercial engineers.

OFFICERS

G. H. Clark . ·	,			. President
F. J. Hurst .				Vice-President
W. R. MILLS .				. Secretary
M. H. Stevenson				. Treasurer







The Chemists' Club

O. Beachenbossel

T. W. FELTON

W. L. HAWKINS

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R. L. Steinberger Sophomores

C. F. ZOBEL

F. B. FAULKNER







THE THISTLE WAY AND WAY



Tech Architectural Club

The gradual return of pre-war conditions brings the Tech Architectural Club back into its own. More than half of the present membership is made up of returned service men, who are more determined than ever to make the organization the pride of the Division of the Arts.

This year the club is planning an exhibition that will surpass all former successes, and the interest shown by both Faculty and members makes things look exceedingly promising.

The purpose for which the club was organized, namely, the promotion of interest in the study of architecture and the allied arts, is being followed most ardently, and the marked growth and recognition of the organization during this year is a sure sign that the members have not worked in vain.

OFFICERS

R. W. Schmertz				. President
L. H. RANK .				Vice-President
H. E. Youngk				. Secretary
S. H. Jamison				. Treasurer







Cosmopolitan Club

CARNEGIE TECH CHAPTER

CORDA FRATRES ASSOCIATION OF COSMOPOLITAN CLUBS

MOTTO: "Above All Nations is Humanity"

FACULTY MEMBERS

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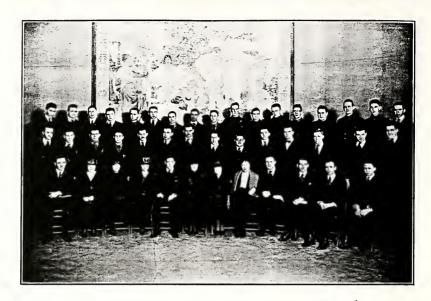
George T. Miller

STUDENT MEMBERS

			STUDENT	T MEMBERS			
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C. B. Braestrup			Danish	R. Prochasson .			. French
J. B. de Carvallio			Brazilian	A. Renner			Hungarian
R. Dubots .			French	J. J. RUDISILL .			. American
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J. A. Joshua .			Hindu	R. Screyer			American
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H. M. MARC .			French	R. W. TANG			. Chinese
R. G. MARQUEZ			Filipino	H. Turoff			Russian
J. P. KEFALOS .			\hat{Greek}	M. VAHANIAN			. Armenian
R. MOULIN .			French	MLLE. G. LECLERC			French
J. Palomo .			Filipino	MLLE. M. POIDEVIN			. French







The Buckeye Club

The Buckeye Club was organized in June, 1919, by students from the Buckeye State, Ohio. Men from other States claim that Ohioans have one great fault, and that is that they think that all the great men come from Ohio. While admitting that many of them come from Ohio, they claim that a few come from other States. Since Ohioans think so much of their State, it is but natural that they want to get acquainted with the other men, and much more so with the girls, from their home State. Since all the girls in the Margaret Morrison Division from Ohio have just recently joined the Buckeye Club, you will soon see a 99.99% membership among the men.

We have a large number of professors and instructors at Tech who are from our native State. They always turn out nearly 100% at the social functions. Perhaps you will find the reason indicated above.

All the smokers, card parties, and informal dances given this year were great successes, every one exhibiting true Ohioan spirit and enthusiasm.

THE BUCKEYE CLUB OFFICERS

H. E. HALDEMAN				. President
F. J. HEINLE				$Vice ext{-}President$
W. C. Fox				. Secretary
S. B. SHEARER				. Treasurer







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An Organization of the Members of the Department of Printing Whose Object is to Promote and Sustain the Standards of the Graphic Arts

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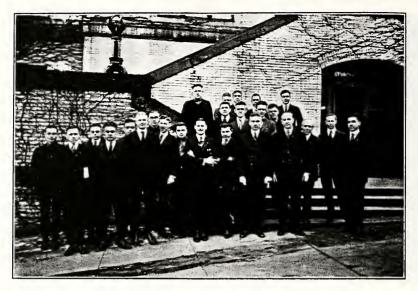
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THE THISTLE YEAR



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	19	20					



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H. F. SPENCER	D. H. GOTTWALS	J. A. Kosack







B. T. U. Club

An organization composed of students of the Heating and Ventilating Department of the Division of Industries. Meetings are held on each Wednesday, at which prominent speakers from the commercial world give beneficial talks.

OFFICERS

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EDWARD NASH				Vice-President
A. E. FRUTCHY				. Secretary
H. C. Hammann				. Treasurer
S. E. DIBBLE .				Faculty Adviser





THE THISTLE XXXXXX



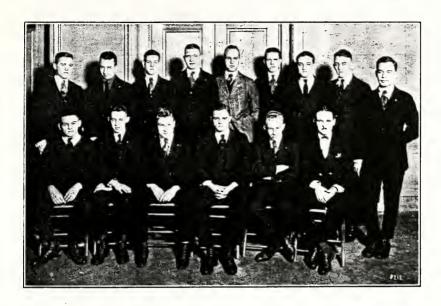
The Carnegie Camera Club

The Carnegie Camera Club was organized in January by a number of students who wished to promote the interest of the school in this most pleasant recreation. Before that time there were many clubs at Tech, representing various activities and professions, but none of which satisfied that particular aesthetic sense which impels one to portray the artistic by means of the lens. This was our reason for forming the society.

The purpose and aims of the club became immediately apparent in a glance at its name. The programs of the meetings consist of talks on the many phases of photography and allied subjects, by men who have achieved success in the art. At other meetings, lantern slides, prints, and enlargements, are exhibited, with open discussion. The dark-room is equipped with apparatus for performing the various photographic processes, thus giving opportunity to work up one's pictures.

Occasional trips will be held in the spring and autumn to the beauty-spots around Pittsburgh. These trips are most enjoyable, as well to those who do not photograph as to club members. Finally, it is intended to hold annual exhibitions of the best work of the year, that the pleasure of photography may be extended to the school as a whole.





The Radio Club

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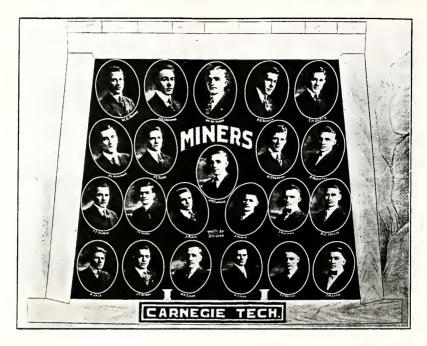
R. C. R. SCHULTZ H. H. WILSON







THE THISTLE YEVEY



Last fall, when the two-year students of the new Co-operative Dept. of Mining Engineering arrived at Carnegie Tech., they very unexpectedly found themselves confronted with the problem of organizing their members into some sort of a club.

Due to the lack of precedent the prospect seemed difficult, but with splendid spirit the two-year men soon formed themselves into the efficiently organized club called the "Miners".

This club has the distinction of being the first of its kind ever formed at an American college.

The chief reason for this distinction is the fact that the members of this club are all men who have had two years' or more practical experience in the coal fields of the United States.

The organization is a product of the best effort of its members, and it is hoped that this is the first step in a movement which will eventually result in a national organization of this type.

OFFICERS

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C. F. WHITNEY				Vice-President
R. P. Scullin				. Secretary
F. MARIETTA .				. Treasurer



1920



THE GEAR GROAN

Poae Z

THE JUNIOR MECHS.

STAFE

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MH.Mawhinney
ASSOCIATE ED. - PL.Irwin
BUSINESS MAN.- HC.Wollace
LYNOTYPIST - C.H Todd
PRINTERS DEVIL-U.Loulan

EDITORIAL

THE OTHER DAY THE CHAIRMAN OF THE SCIEN TIFIC STAFF ENJOYED A LITTLE RAMBLE THRU THAT PART OF OUR SCHOOL WHERE THE SCIENCE OF LOAFING & LOVING AS A FINE ART CAN BE STUD-IED AT FIRST HAND. WE PEGG TO THAT LITTLE BIT OF ELYSIUM - DESIGN SCHOOL - WHERE YOU DONT EVEN HAVE TO PUT LIGHTED PILLS IN UR POCKET WHEN A PROF. HEAVES IN SIGHT.

FOLLOWING A REPORT
OF THE TRIP, THE
STAFF WAS IN FAVOR OF
SUGGESTING THAT SCREENS
BE PLACED AROUND
THE STONE BENCHES
IN THE HALL, AND THAT
SOME WHITEWASH BE
PUT IN ALL THE CORNERS
LIKE IN THE FORD
FACTORY AS SPITTING
MAIL POUGH & 5 BROTHERS
IN PLACES LIKE THAT
TENDS TO BECOME
A HABIT.

THE ARENA

by Blinks FOR MEXICAN ATHLETES & OTHER BULL SLINGERS

WEVE STARTED THIS HERECOLYM

WEVE GOT TO KEEP IT FULL

MYSELF & SEVERAL OTHERS

CAN SLING A LINE OF BULL.

BUT EVEN GUYS LIKE US GET LOW WITH OUR SUPPLY OF BUNGEE AND STUFF WE WRITE-ITS NG-BOM SOME CALL IT JUST PLAIN JUNK

SO ALL U CONSTANT READERS
SIMPLY GOT TO COME TO BAT.
WITH STORIES, POEMS, ANYTHING
TO KEEP OUR COLYM FAT.

THE SCIENTIFIC STAFF
OF THE GROAN HAS CAREFULLY INVESTIGATED A

SYSTEM OF RATINGS FOR
PROFS. BRIEFLY, IT IS:—
A RECITATION IS 50
MINUTES AND 100 2 2

EVERY MINUTE WHICH
A PROF TALKS ENTITLES
HIM TO 2 % SOME.
RATINGS AWARDED BY
THE G.G.S. ARE:

SIMMONS - 2°00

MCCULLOGH - 41.5

BOLTON - 100

BARNES - Exceeds

100 and is therefore

purely imaginary.

FINANCIAL REPORT
Object: To determine the

financial status of our

Apparatus: Lots of Gaul

Dota:

Safety First - \$.00000 Shorty Maurer-.0000

M. Gare' -.00000

Bloosy Foxan - . 00000 Camputations: -

It aint.

- ADZ -COLLEGE BOYS!

NEW SQUEEZE- RITER BACK MODEL

STRIKING
COLORS

SWELL
MATERIALS
Sackcloth

Insist on the May & Maynot

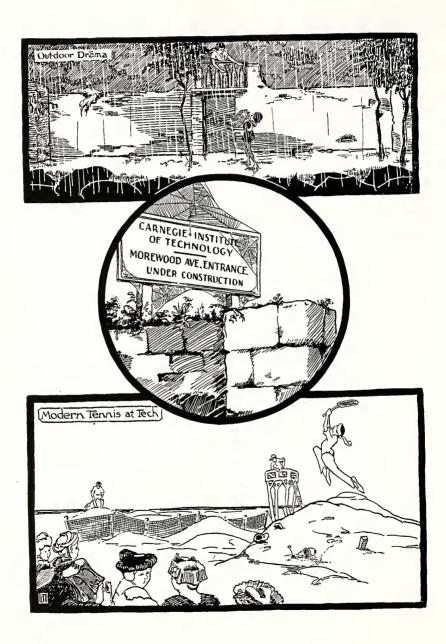
Burlan

Carpet

etc.

MAY and MAYNOT
Tailors

For Tek Kalendars -





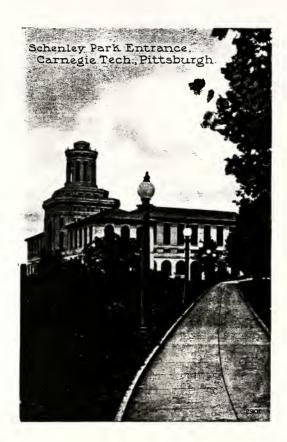
Acknowledgments

The 1920 THISTLE BOARD wish to express their sincere appreciation to all those who helped in the compilation of this book. They wish especially to express thanks to the following persons for their very kind assistance:

MISS MARJORY LOVEJOY MISS ELIZABETH KUHN CRAIG R. SPICHER M. N. ROHRBACK R. H. GUYTON KARL F. HAUSAUER









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March 16, 1920.

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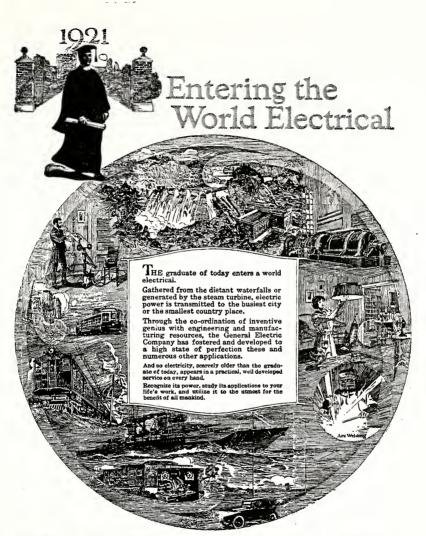
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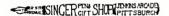
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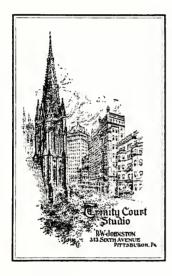


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